











# ABRAMI

145 THORAIN BLVD  
SAN ANTONIO, TX 78212



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**CLIENT APPROVAL**

INITIAL: \_\_\_\_\_

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JACOB & STEPHANIE ABRAMI  
145 THORAIN BLVD  
SAN ANTONIO, TX 78212

TITLE PAGE

**JOB NO.:**

26-0039

**DESIGNER:**

KL

**DRAWN BY:**

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**REVISION DATES:**

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**SHEET NUMBER**

**G1.1**

### GENERAL NOTES

- DESIGNERS TO BE INVITED TO THE FOLLOWING MEETINGS/WALKS DURING CONSTRUCTION: BLUE BOX WALK, CABINET MEASURE, COUNTERTOP MEASURE, TILE WALK, & HARDWARE WALK

### GENERAL ELECTRICAL NOTES

- PLACE OUTLETS WHERE REQUIRED BY BUILDING CODES
- CONFIRM PLACEMENT OF SMOKE DETECTORS PER BUILDING CODES (REF IRC R314.3 FOR LOCATIONS, 314.4 FOR INTERCONNECTION REQUIREMENTS)
- ELECTRICAL NOTES SHOWN ON ELEVATIONS WILL BE IN **RED**
- ALL ELECTRICAL SHOWN ON PLANS IN **RED** IS NEW; ANYTHING IN **BLUE** IS EXISTING FIXTURES TO HAVE AN UPDATED FIXTURE OR DEVICE; ALL ELECTRICAL SHOWN IN **GRAY** IS EXISTING ELECTRICAL AND FIXTURES THAT WILL NOT BE AFFECTED

### PROJECT SPECIFIC NOTES

- HOME IS LOCATED WITHIN THE OLMOS PARK TERRACE HISTORIC DISTRICT
- CLIENTS TO ARRANGE REMOVAL & STORAGE OF EXISTING SOLAR PANELS
- CLIENTS TO ARRANGE FOR REMOVAL & DONATING OF APPLIANCES NOT BEING REUSED
- CLIENTS TO REMOVE EXISTING CEILING FANS PRIOR TO DEMO
- DEMO WHOLE HOME TO STUDS **EXCLUDING** THE FOLLOWING: LIVING ROOM FIREPLACE SURROUND & HEARTH, HARDWOOD FLOORS IN LIVING, BED #1, LIBRARY, HALL #1, SOLID WOOD INTERIOR DOORS, FRONT DOOR, DOORBELL WIRING, & PHONE NICHE IN HALL #1
- REFINISH EXISTING HARDWOOD FLOORING IN LIVING, BED #1, LIBRARY, HALL #1; INSTALL MATCHING HARDWOOD FLOORING IN PRIMARY SUITE AREA
- NEW MINERAL WOOL INSULATION IN WALLS & NEW BLOWN CELLULOSE INSULATION IN ATTIC
- NEW PLUMBING, & ELECTRICAL WIRING THROUGHOUT HOME
- NEW SMOKE DETECTORS THROUGHOUT PER CODE
- LOWER FLOOR IN PRIMARY HALL, PRIMARY BEDROOM, & PRIMARY BATHROOM TO BE FLUSH WITH MAIN LIVING SPACES OF HOUSE
- RAISE CEILING HEIGHTS IN KITCHEN/DINING, & WALK-IN CLOSET, TO ALL BE 9'; RAISE ROOFLINE TO BE FLUSH ACROSS BACK OF HOUSE
- GABLE PRIMARY BEDROOM CEILING & ADD FAUX WOOD BEAMS
- NEW WINDOWS THROUGHOUT
- NEW PAINT-GRADE WOOD BASEBOARD, CROWN MOLDING, WINDOW CASING & SILLS THROUGHOUT
- NEW INTERIOR PAINT THROUGHOUT INCLUDING INTERIOR WALLS, CEILINGS, TRIM, DOORS (EXCLUDING FRONT DOOR)
- NEW EXTERIOR CEMENT BOARD SIDING & PAINT (DO NOT PAINT EXISTING GUTTERS)
- NEW HINGES & LEVERS TO BE INSTALLED ON ALL EXISTING INTERIOR DOORS
- RE-ROUTE INTERNAL POWER FOR SOLAR PANELS

### REVISION SCHEDULE

Number	Date	Revised By	Description

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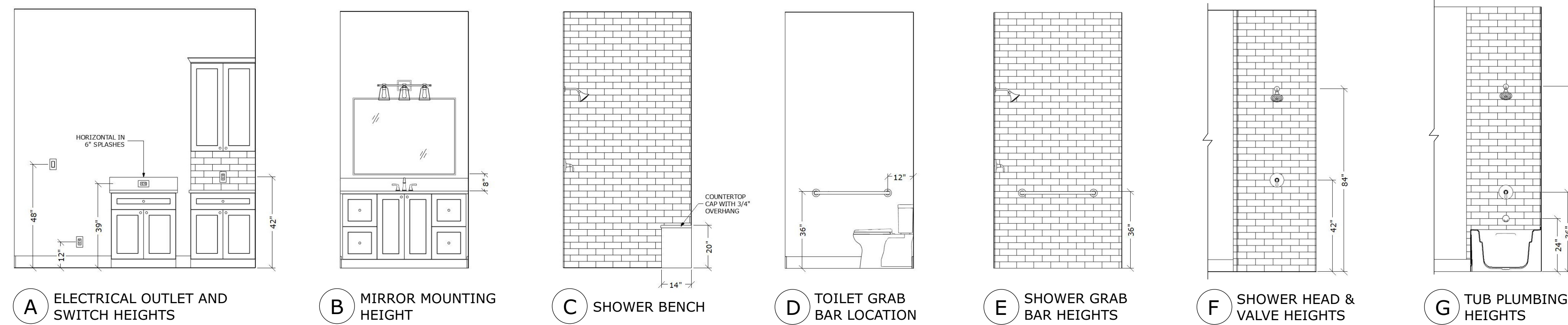
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### ABBREVIATIONS

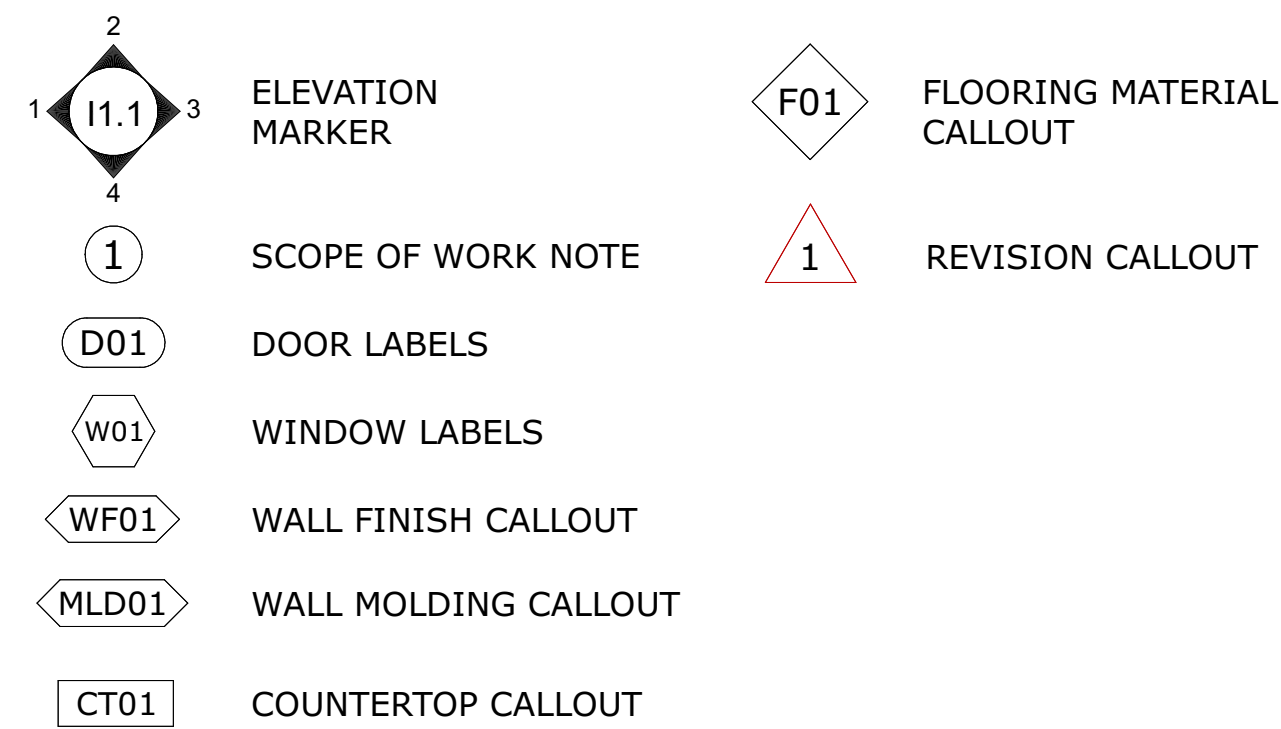
- TYP. - TYPICAL; REPEATED ELEMENT ON A SINGLE ELEVATION OR PLAN
- V.I.F. - VERIFY IN FIELD
- A.F.F. - ABOVE FINISHED FLOOR
- U.N.O. - UNLESS NOTED OTHERWISE
- I.L.O. - IN LIEU OF
- N.I.S. - NOT IN SCOPE
- EQ. - EQUAL

### STANDARD DIMENSIONED ELEVATIONS [U.N.O.]

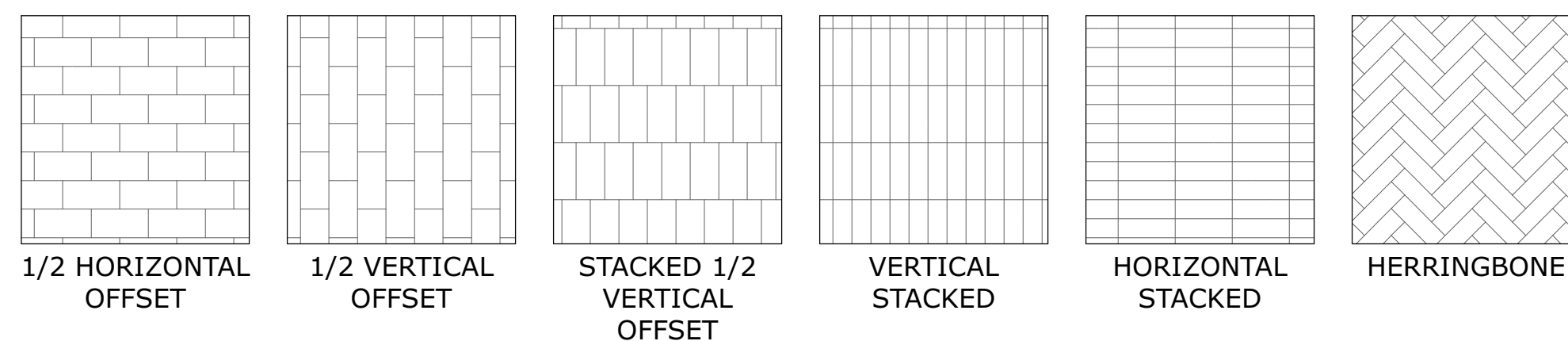
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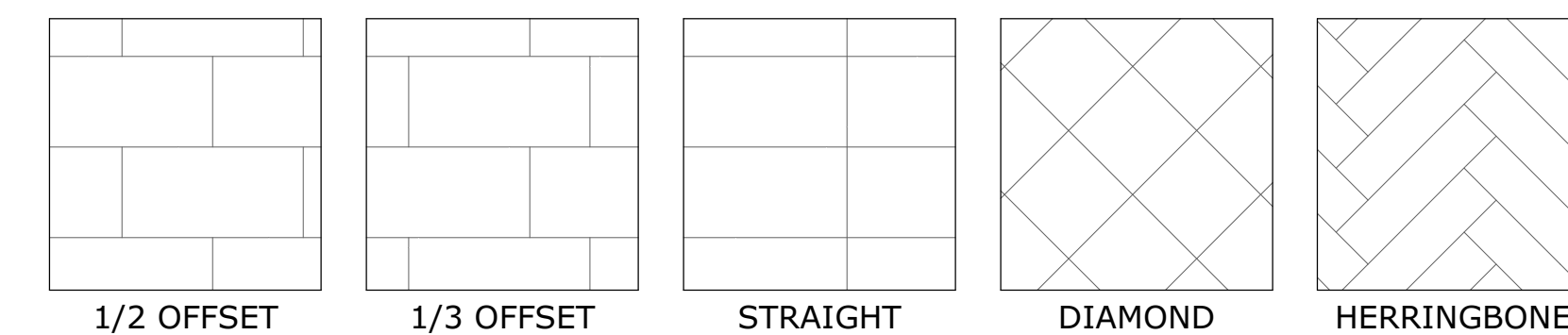
### SYMBOLS



### STANDARD TILE INSTALLATION PATTERNS [U.N.O.]



### STANDARD FLOOR INSTALLATION PATTERNS [U.N.O.]



### AREA CALCULATIONS (SF AFFECTED AREAS)

LIVING	300 SF
KITCHEN/DINING	436 SF
HALL #2	12 SF
PRIMARY HALL	35 SF
PRIMARY WIC	48 SF
PRIMARY BEDROOM	226 SF
PRIMARY BATH	84 SF
LIBRARY + WINE CLOSET + CLOSET #2	198 SF
HALL #1 + CLOSET	44 SF
GUEST BATH + LINEN	53 SF
BEDROOM #1 + CLOSET	188 SF
GARAGE + CLOSET	377 SF

### REMOVE & STORE ITEMS BY AREA (FOR RE-INSTALL)

- WHOLE HOME**
  - SOLID WOOD INTERIOR DOORS (HOLLOW-CORE DOORS TO BE THROWN OUT)
- KITCHEN**
  - REFRIGERATOR
  - FAUCET
  - GARBAGE DISPOSAL
- HALL #1**
  - PHONE NICHE
- GUEST BATH**
  - VANITY CABINET
  - SMALL DOOR KNOB ON LINEN CLOSET DOOR
- GARAGE**
  - WATER SOFTENER

### PROJECT OPTIONS PROVIDED

- OPT 1: PRIMARY HALL, PRIMARY BEDROOM, & PRIMARY BATHROOM**
  - IF FLOORING IN THESE SPACES CANNOT BE LOWERED, BUILD RAMP CONNECTING HALL #2 & PRIMARY HALL
- OPT 2: PRIMARY WALK-IN CLOSET**
  - IF RAMP IS BEING BUILT CONNECTING HALL #2 TO PRIMARY HALL, RAISE FLOOR HEIGHT TO BE FLUSH WITH PRIMARY BEDROOM FLOOR
- OPT 3: PRIMARY BEDROOM (APPROVED)**
  - VAULT CEILING & ADD FAUX WOOD BEAMS
- OPT 4: PRIMARY BEDROOM**
  - INSTALL NEW WOOD-BURNING STOVE WITH NON-COMBUSTIBLE SURROUND; VENT OUTSIDE; REINFORCE FLOORING BELOW FOR ADDED WEIGHT
- OPT 5: EXTERIOR (APPROVED)**
  - UPGRADE ALL SIDING TO CEMENT BOARD SIDING
- OPT 6: GARAGE LAUNDRY ROOM**
  - ADD SHELVING AND/OR CABINETRY ABOVE WASHER/DRYER
  - PLUM FOR NEW SINK; INSTALL SINK & FAUCET
  - INSTALL TANK-LESS WATER HEATER
- OPT 7: HARDWOOD FLOORING**
  - REFINISH EXISTING HARDWOOD FLOORING IN LIVING, BED #1, LIBRARY, HALL #1; INSTALL SOLID WOOD FLOORING IN PRIMARY SUITE AREA (MATCH TO EXISTING)
- OPT 8: ENGINEERED WOOD FLOORING**
  - DEMO ALL EXISTING HARDWOOD FLOORING & REPLACE W/ENGINEERED WOOD FLOORING IN LIVING, BED #1, LIBRARY, & PRIMARY SUITE AREA
- OPT 9: LIVING ROOM**
  - STRIP & REFINISH FIREPLACE SURROUND
  - DEMO & INSTALL NEW TILE SURROUND AND HEARTH (PENDING CODE REQUIREMENTS)
- OPT 10: ROOF (APPROVED)**
  - RAISE ROOF OVER GARAGE TO MAKE FLUSH WITH KITCHEN ROOF; MATCH & TIE-IN SHINGLES TO EXISTING ROOFING MATERIAL
- OPT 11: CLOSET TO WINE FRIDGE CONVERSION**
  - CONVERT CLOSET #3 IN LIBRARY TO WINE FRIDGE

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**SCOPE OF WORK**

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**LIBRARY**

- DEMO EXTERIOR DOOR
- DEMO WALL SHARED BETWEEN CLOSET #1, CLOSET #2, & LIBRARY FOR NEW POCKET DOOR AT CLOSET #2
- FRAME OUT FOR NEW WALL SHARED BETWEEN CLOSET #1, CLOSET #2, & LIBRARY; ALLOW FOR NEW POCKET DOOR; INSTALL POCKET DOOR
- RETROFIT (2) NEW WINDOWS
- INSTALL (1) NEW CEILING FAN
- INSTALL (6) NEW 4" WAFER LIGHTS, INCLUDING 1 IN EACH CLOSET
- INSTALL (1) PAINT-GRADE WOOD SHELF W/WHITE METAL CLOSET ROD SHELF BRACKET & (1) WOOD CLOSET ROD IN CLOSET #2
- NO SHELVING IN CLOSET #3; FUTURE WINE CLOSET
- ADD APPROPRIATE ELECTRICAL FOR FUTURE WINE CLOSET

**HALL #1**

- EXISTING PHONE NICHE TO BE SAVED AND REUSED
- DEMO DROPPED CEILING HEADER
- INSTALL (2) 4" WAFER LIGHTS
- INSTALL PULL-DOWN ATTIC STAIRS PER CODE
- INSTALL (1) PAINT-GRADE WOOD SHELF W/WHITE METAL CLOSET ROD SHELF BRACKET & (1) WOOD CLOSET ROD IN HALL CLOSET

**GUEST BATH**

- VANITY CABINET TO REMAIN & BE REPAINTED
- MOVE TOILET OVER TO BE 18" ON CENTER
- INSTALL NEW TILE FLOORING
- INSTALL NEW TUB, TILED SHOWER SURROUND, NICHE, SHOWER PLUMBING, & SHOWER SCREEN
- INSTALL 44" TALL TILED WAINSCOT WALL
- INSTALL NEW TOILET
- INSTALL NEW QUARTZ COUNTERTOP, (1) UNDERMOUNT SINK, (1) SINGLE HANDLE FAUCET, (1) MIRROR
- PAINT EXISTING VANITY CABINET & INSTALL NEW CABINET HARDWARE
- INSTALL (1) HAND TOWEL BAR, (1) T.P. HOLDER, (1) 24" TOWEL BAR, (2) ROBE HOOKS
- INSTALL NEW PAINT-GRADE WOOD SHELVING IN LINEN CLOSET
- INSTALL (4) 4" WAFER LIGHTS, (1) EXHAUST FAN, (1) VANITY LIGHT

**BEDROOM #1**

- INSTALL (1) NEW CEILING FAN W/LIGHT KIT
- RETROFIT (4) NEW WINDOWS
- INSTALL (1) PAINT-GRADE WOOD SHELF W/WHITE METAL CLOSET ROD SHELF BRACKET & (1) WOOD CLOSET ROD IN CLOSET #1

**PRIMARY HALL**

- DEMO WALL SHARED BETWEEN HALL #2 & WALK-IN CLOSET
- DEMO SOFFIT/DROPPED CEILING & ATTIC ACCESS
- DEMO WALL SHARED BETWEEN PRIMARY HALL & PRIMARY BATH
- DEMO WALL SHARED BETWEEN PRIMARY HALL & PRIMARY WALK-IN CLOSET
- FRAME OUT NEW WALL & DOOR OPENING LOCATED BETWEEN KITCHEN & PRIMARY HALL; INSTALL NEW DOOR
- FRAME OUT NEW WALL SHARED BETWEEN PRIMARY HALL & PRIMARY BATH; ALLOW FOR NEW POCKET DOOR; INSTALL NEW POCKET DOOR
- FRAME OUT NEW WALL SHARED BETWEEN PRIMARY HALL & PRIMARY WALK-IN CLOSET; ALLOW FOR NEW POCKET DOOR; INSTALL NEW POCKET DOOR
- FRAME FOR NEW ATTIC ACCESS
- INSTALL (2) 4" WAFER LIGHTS

**PRIMARY WALK-IN CLOSET**

- DEMO WALLS SHARED BETWEEN SUN ROOM, HALL #2 & WALK-IN CLOSET
- DEMO WALL SHARED BETWEEN PRIMARY HALL & PRIMARY WALK-IN CLOSET
- DEMO SOFFIT/DROPPED CEILING
- FRAME OUT NEW WALL SHARED BETWEEN PRIMARY HALL & PRIMARY WALK-IN CLOSET; ALLOW FOR NEW POCKET DOOR; INSTALL NEW POCKET DOOR
- REINFORCE FLOOR JOISTS UNDER GUN SAFE TO ACCOMMODATE WEIGHT
- INSTALL NEW CABINETS, HANGING RODS, & SHELVING; INSTALL SHELF ABOVE GUN SAFE LOCATION (GUN SAFE IS PROVIDED BY CLIENT)
- INSTALL (3) 4" WAFER LIGHTS

**PRIMARY BEDROOM**

- DEMO (3) WINDOWS & WIDEN OPENING BETWEEN TWO BACK WINDOWS TO MAKE ROOM FOR LARGER PICTURE WINDOW
- DEMO DRYWALL CEILING & GABLE
- FRAME OUT FOR NEW LARGE PICTURE WINDOW
- INSTALL (1) NEW PICTURE WINDOW
- RETROFIT (1) NEW WINDOW
- INSTALL (4) 4" WAFER LIGHTS
- INSTALL (1) NEW CEILING FAN

**PRIMARY BATH**

- DEMO WALL SHARED BETWEEN PRIMARY HALL & PRIMARY BATH
- FRAME OUT NEW WALL SHARED BETWEEN PRIMARY HALL & PRIMARY BATH; ALLOW FOR NEW POCKET DOOR; INSTALL NEW POCKET DOOR
- ADD BLOCKING IN SHOWER FOR FUTURE GRAB BARS
- INSTALL NEW WINDOW W/OBSCURE GLASS
- FRAME OUT NEW SHOWER WALLS FOR ZERO ENTRY SHOWER
- INSTALL GLASS ON SHOWER PONY WALL (NO SHOWER DOOR)
- INSTALL NEW LINEN CABINET, VANITY CABINETS, & CABINET HARDWARE
- INSTALL (2) NEW UNDERMOUNT SINKS, (2) SINGLE HANDLE FAUCETS, (2) MIRRORS, QUARTZ COUNTERTOPS, & TOILET
- INSTALL NEW TILED SHOWER SURROUND, NICHE, & TILED SHOWER FLOOR
- INSTALL NEW SHOWER PLUMBING
- INSTALL NEW 48" TALL WAINSCOT TILE WALL THROUGHOUT
- INSTALL NEW TILE FLOORING
- INSTALL (2) HAND TOWEL BARS, (1) T.P. HOLDER, (1) 24" TOWEL BAR, (7) ROBE HOOKS
- INSTALL (3) WALL SCONCES, (5) 4" WAFER LIGHTS, (2) EXHAUST FANS

**LIVING**

- WIDEN OPENING OF WALL SHARED BETWEEN LIVING & KITCHEN
- RE-STAIN FRONT DOOR; EXISTING DOOR HARDWARE TO REMAIN
- RETROFIT (3) NEW WINDOWS
- INSTALL NEW CEILING FAN
- INSTALL (5) NEW 4" WAFER LIGHTS
- INSTALL (1) NEW FLOOR PLUG

**KITCHEN/DINING**

- EXISTING REFRIGERATOR, FAUCET, & GARBAGE DISPOSAL TO BE STORED & REINSTALLED
- WIDEN OPENING OF WALL SHARED BETWEEN LIVING & KITCHEN
- DEMO WALL SHARED BETWEEN KITCHEN, DINING, SUN ROOM, & HALL #2 (THIS ABSORBS THE SUN ROOM INTO NEW KITCHEN LAYOUT)
- FRAME OUT NEW WALLS LOCATED BETWEEN KITCHEN/DINING, HALL #2, & PRIMARY WALK-IN CLOSET
- INSTALL NEW TILE FLOORING
- INSTALL NEW PERIMETER & ISLAND CABINETS, QUARTZ COUNTERTOPS, STAINLESS STEEL SPLASH ABOVE RANGE TOP, TILE BACKSPLASH, SINK, POT FILLER ABOVE RANGE TOP
- INSTALL NEW APPLIANCES: STAINLESS VENT HOOD OVER RANGE (VENT TO OUTSIDE), MICROWAVE W/TRIM KIT, 36" GAS RANGE TOP, 30" DOUBLE OVENS, BEVERAGE FRIDGE AT ISLAND, DISHWASHER; REINSTALL EXISTING REFRIGERATOR, FAUCET, & GARBAGE DISPOSAL
- INSTALL TAPE LIGHTING UNDER UPPER PERIMETER CABINETS
- INSTALL (2) POP-UP OUTLETS AT ISLAND
- INSTALL NEW CHANDELIER OVER DINING TABLE
- INSTALL (3) PENDANT LIGHTS OVER ISLAND
- INSTALL (18) 4" WAFER LIGHTS
- INSTALL (6) 120V APPLIANCE OUTLETS AT NEW APPLIANCE LOCATIONS
- INSTALL NEW WINDOW OVER KITCHEN SINK
- INSTALL NEW EXTERIOR DOOR TO GARAGE & NEW FULL-LIGHT EXTERIOR DOOR TO ACCESS BACKYARD

**GARAGE**

- REMOVE & STORE WATER SOFTENER
- DEMO WATER HEATER, CLOSET WALLS & DOORS, UPPER CABINETS TO LEFT OF CLOSET, PLATFORM UNDER WASHER/DRYER, DOOR TO KITCHEN
- INSTALL TANK-LESS WATER HEATER
- PITCH OF ROOF TO CHANGE; V.I.F. W/FRAMER, ENGINEER, & PROJECT MANAGER
- INSTALL NEW DOOR TO KITCHEN

**SUN ROOM**

- DEMO WALL SHARED BETWEEN KITCHEN, DINING, SUNROOM, & HALL #2 (THIS ABSORBS THE SUN ROOM INTO NEW KITCHEN LAYOUT)
- DEMO SOFFIT/DROPPED CEILING
- DEMO WALLS SHARED BETWEEN SUN ROOM, HALL #2 & WALK-IN CLOSET
- DEMO DOUBLE EXTERIOR FRENCH DOORS
- DEMO DOOR TO GARAGE

**HALL #2**

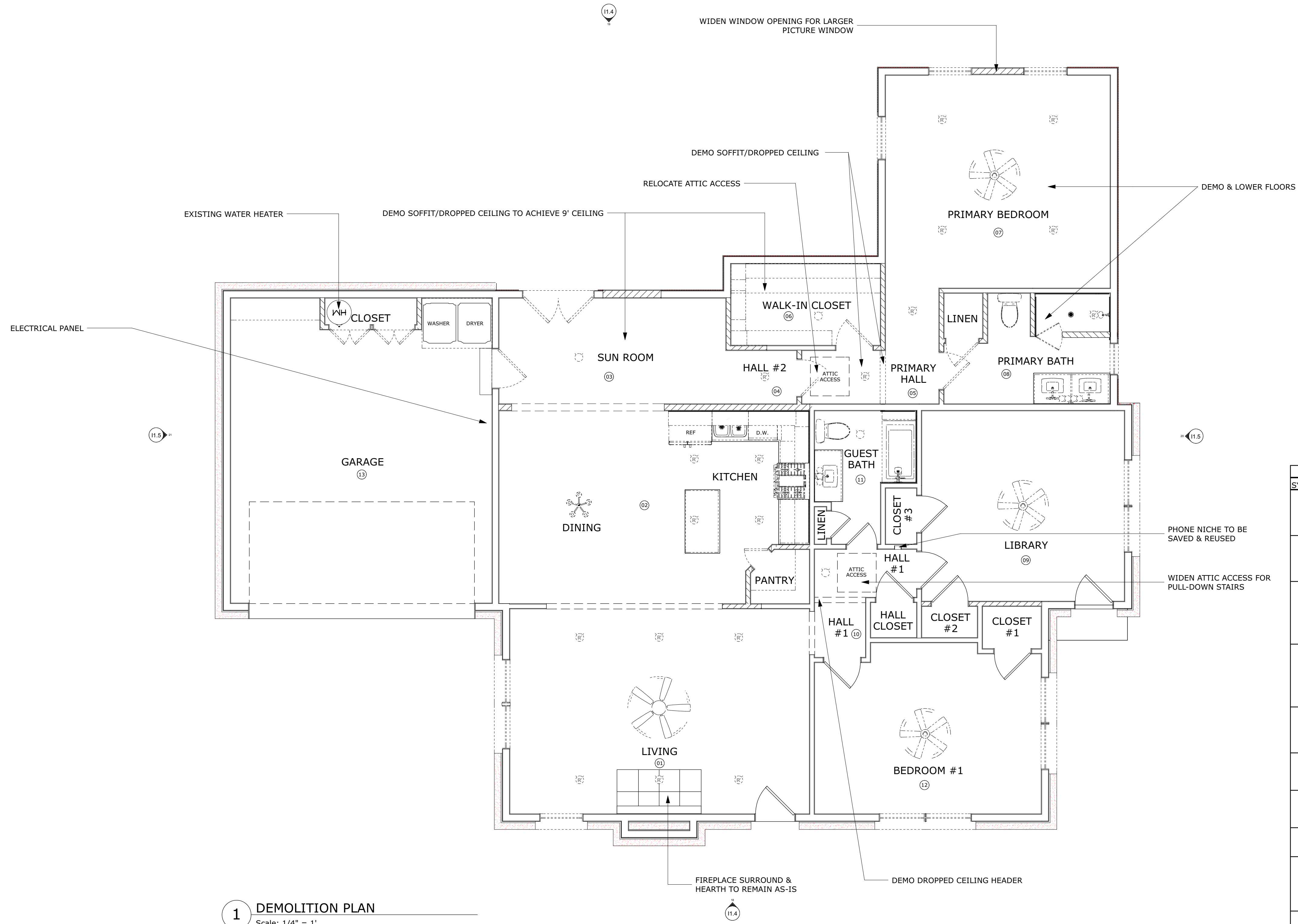
- DEMO WALL SHARED BETWEEN KITCHEN, DINING, SUN ROOM, & HALL #2 (THIS ABSORBS THE SUNROOM INTO NEW KITCHEN LAYOUT)
- DEMO HARDWOOD FLOORING & BASEBOARD
- DEMO SOFFIT/DROPPED CEILING
- DEMO WALL SHARED BETWEEN HALL #2 & WALK-IN CLOSET
- DEMO WALL & DOOR SHARED BETWEEN HALL #2 & PRIMARY HALL
- FRAME OUT NEW WALLS LOCATED BETWEEN KITCHEN/DINING, HALL #2, & PRIMARY WALK-IN CLOSET
- FRAME OUT NEW WALL & DOOR OPENING LOCATED BETWEEN HALL #2 & PRIMARY HALL; INSTALL NEW DOOR



SCAN FOR SELECTION SCHEDULE

LEGEND

	EXISTING STONE EXTERIOR WALL
	EXISTING SIDING EXTERIOR WALL
	EXISTING INTERIOR WALL
	DEMO INTERIOR WALL
	DEMO
	THRESHOLD
	AREAS N.I.S.



FIRST FLOOR DEMO NOTES	
SYMBOL	TEXT
ⓐ	-CLIENTS TO REMOVE CEILING FAN BEFORE DEMO -FRONT DOOR TO REMAIN AS-IS -DEMO TO STUDS -WIDEN OPENING OF WALL SHARED BETWEEN LIVING & KITCHEN -DEMO (3) WINDOWS
ⓑ	-EXISTING REFRIGERATOR & DISHWASHER TO BE STORED & REINSTALLED -DEMO TO STUDS -WIDEN OPENING OF WALL SHARED BETWEEN LIVING & KITCHEN -DEMO WALLS SHARED BETWEEN SUN ROOM, HALL #2 & WALK-IN CLOSET (THIS ABSORBS THE SUN ROOM INTO NEW KITCHEN LAYOUT)
ⓒ	-DEMO TO STUDS -DEMO WALL SHARED BETWEEN KITCHEN, DINING, SUNROOM, & HALL #2 (THIS ABSORBS THE SUN ROOM INTO NEW KITCHEN LAYOUT) -DEMO SOFFIT/DROPPED CEILING -DEMO WALLS SHARED BETWEEN SUN ROOM, HALL #2 & WALK-IN CLOSET -DEMO DOUBLE EXTERIOR FRENCH DOORS -DEMO DOOR TO GARAGE
ⓓ	-DEMO TO STUDS -DEMO WALL SHARED BETWEEN KITCHEN, DINING, SUN ROOM, & HALL #2 (THIS ABSORBS THE SUN ROOM INTO NEW KITCHEN LAYOUT) -DEMO HARDWOOD FLOORING & BASEBOARD -DEMO SOFFIT/DROPPED CEILING -DEMO WALL SHARED BETWEEN HALL #2 & WALK-IN CLOSET -DEMO WALL & DOOR SHARED BETWEEN HALL #2 & PRIMARY HALL
ⓔ	-DEMO TO STUDS -DEMO WALL SHARED BETWEEN HALL #2 & WALK-IN CLOSET -DEMO SOFFIT/DROPPED CEILING & ATTIC ACCESS -DEMO WALL SHARED BETWEEN PRIMARY HALL & PRIMARY BATH -DEMO WALL SHARED BETWEEN PRIMARY HALL & PRIMARY WALK-IN CLOSET
ⓕ	-DEMO TO STUDS -DEMO WALLS SHARED BETWEEN SUN ROOM, HALL #2 & WALK-IN CLOSET -DEMO WALL SHARED BETWEEN PRIMARY HALL & PRIMARY WALK-IN CLOSET -DEMO SOFFIT/DROPPED CEILING
ⓖ	-CLIENTS TO REMOVE CEILING FAN BEFORE DEMO -DEMO TO STUDS INCLUDING CEILING & WOOD FLOORING -DEMO (3) WINDOWS & WIDEN OPENING BETWEEN TWO BACK WINDOWS TO MAKE ROOM FOR LARGER PICTURE WINDOW
ⓗ	-DEMO TO STUDS -DEMO WALL SHARED BETWEEN PRIMARY HALL & PRIMARY BATH -DEMO (1) WINDOW
ⓓ	-CLIENTS TO REMOVE CEILING FAN BEFORE DEMO -SAVE & REUSE INTERIOR DOORS -DEMO TO STUDS -DEMO (2) WINDOWS -DEMO WALL SHARED BETWEEN CLOSET #1, CLOSET #2, & LIBRARY FOR NEW POCKET
ⓙ	-EXISTING PHONE NICHE TO BE SAVED & REUSED -SAVE & REUSE INTERIOR DOORS -DEMO TO STUDS -DEMO DROPPED CEILING HEADER
ⓚ	-VANITY CABINET TO REMAIN & BE REPAINTED -SAVE & REUSE INTERIOR DOORS -DEMO TO STUDS
ⓛ	-CLIENTS TO REMOVE CEILING FAN BEFORE DEMO -SAVE & REUSE INTERIOR DOORS -DEMO TO STUDS -DEMO (4) WINDOWS
ⓜ	-DEMO STEP INTO GARAGE -DEMO PLATFORM UNDER WASHER/DRYER -DEMO CLOSET -DEMO UPPER CABINETS

1 DEMOLITION PLAN  
Scale: 1/4" = 1'

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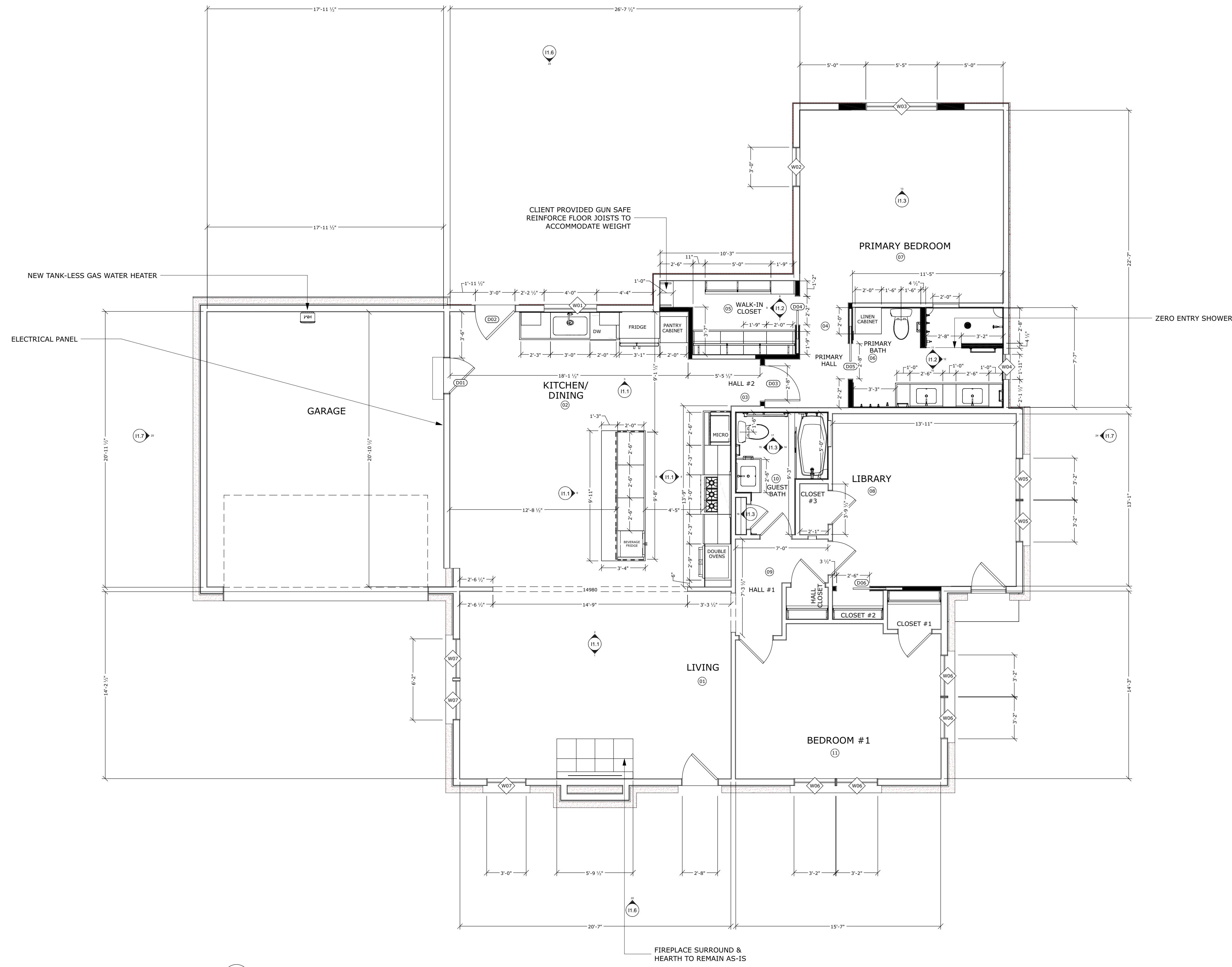
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**1 NEW PLAN**  
Scale: 1/4" = 1'

**LEGEND**

	EXISTING STONE EXTERIOR WALL
	EXISTING SIDING EXTERIOR WALL
	EXISTING INTERIOR WALL
	NEW INTERIOR WALL
	THRESHOLD
	AREAS N.I.S.



FIRST FLOOR NEW PLAN NOTES	
SYMBOL	TEXT
ⓐ	-RE-STAIN FRONT DOOR; EXISTING DOOR HARDWARE TO REMAIN -RETROFIT (3) NEW WINDOWS -INSTALL NEW CEILING FAN -INSTALL (5) NEW 4" WAFER LIGHTS -INSTALL (1) NEW FLOOR PLUG
ⓑ	-FRAME OUT NEW WALLS LOCATED BETWEEN KITCHEN/DINING, HALL #2, & PRIMARY WALK-IN CLOSET -INSTALL NEW TILE FLOORING & BASEBOARD -INSTALL NEW PERIMETER & ISLAND CABINETS, QUARTZ COUNTERTOPS, QUARTZ SPLASH ABOVE RANGE TOP, TILE BACKSPLASH, SINK, GARBAGE DISPOSAL, POT FILLER ABOVE RANGE TOP -INSTALL NEW APPLIANCES: STAINLESS VENT HOOD OVER RANGE (VENT TO OUTSIDE), MICROWAVE W/TRIM KIT, 36" GAS RANGE TOP, 30" DOUBLE OVENS, BEVERAGE FRIDGE AT ISLAND, DISHWASHER; REINSTALL EXISTING REFRIGERATOR -INSTALL TAPE LIGHTING UNDER UPPER PERIMETER CABINETS -INSTALL (2) POP-UP OUTLETS AT ISLAND -INSTALL NEW CHANDELIER OVER DINING TABLE -INSTALL (3) PENDANT LIGHTS OVER ISLAND -INSTALL (18) 4" WAFER LIGHTS -INSTALL (6) 120V APPLIANCE OUTLETS AT NEW APPLIANCE LOCATIONS -INSTALL NEW WINDOW OVER KITCHEN SINK -INSTALL NEW EXTERIOR DOOR TO GARAGE & NEW FULL-LIGHT EXTERIOR DOOR TO ACCESS BACKYARD
ⓒ	-FRAME OUT NEW WALLS LOCATED BETWEEN KITCHEN/DINING, HALL #2, & PRIMARY WALK-IN CLOSET -FRAME OUT NEW WALL & DOOR OPENING LOCATED BETWEEN HALL #2 & PRIMARY HALL; INSTALL NEW DOOR
ⓓ	-FRAME OUT NEW WALL & DOOR OPENING LOCATED BETWEEN KITCHEN & PRIMARY HALL; INSTALL NEW DOOR -FRAME OUT NEW WALL SHARED BETWEEN PRIMARY HALL & PRIMARY BATH; ALLOW FOR NEW POCKET DOOR; INSTALL NEW POCKET DOOR -FRAME OUT NEW WALL SHARED BETWEEN PRIMARY HALL & PRIMARY WALK-IN CLOSET; ALLOW FOR NEW POCKET DOOR; INSTALL NEW POCKET DOOR -FRAME FOR NEW ATTIC ACCESS -INSTALL (2) 4" WAFER LIGHTS
ⓔ	-FRAME OUT NEW WALLS LOCATED BETWEEN KITCHEN/DINING, HALL #2, & PRIMARY WALK-IN CLOSET -FRAME OUT NEW WALL SHARED BETWEEN PRIMARY HALL & PRIMARY WALK-IN CLOSET; ALLOW FOR NEW POCKET DOOR; INSTALL NEW POCKET DOOR -REINFORCE FLOOR JOISTS UNDERNEATH GUN SAFE TO ACCOMMODATE WEIGHT -INSTALL NEW CABINETRY, HANGING RODS, & SHELVING; INSTALL SHELF ABOVE GUN SAFE LOCATION (GUN SAFE IS PROVIDED BY CLIENT) -INSTALL (3) 4" WAFER LIGHTS
ⓕ	-FRAME OUT NEW WALL SHARED BETWEEN PRIMARY HALL & PRIMARY BATH; ALLOW FOR NEW POCKET DOOR; INSTALL NEW POCKET DOOR -INSTALL NEW WINDOW W/OBSCURE GLASS -FRAME OUT NEW SHOWER WALLS FOR ZERO ENTRY SHOWER -ADD BLOCKING IN SHOWER FOR FUTURE GRAB BARS -INSTALL GLASS ON SHOWER PONY WALL (NO SHOWER DOOR) -INSTALL NEW LINEN CABINET, VANITY CABINETS, & CABINET HARDWARE -INSTALL (2) NEW UNDERMOUNT SINKS, (2) SINGLE HANDLE FAUCETS, (2) MIRRORS, QUARTZ COUNTERTOPS, & TOILET -INSTALL NEW TILED SHOWER SURROUND, NICHE, & TILED SHOWER FLOOR -INSTALL NEW SHOWER PLUMBING -INSTALL NEW 48" TALL WAINSCOT TILE WALL THROUGHOUT -INSTALL NEW TILE FLOORING -INSTALL (2) HAND TOWEL BARS, (1) T.P. HOLDER, (1) 24" TOWEL BAR, (7) ROBE HOOKS -INSTALL (3) WALL SCONCES, (5) 4" WAFER LIGHTS, (2) EXHAUST FANS
ⓖ	-GABLE CEILING -FRAME OUT FOR NEW LARGE PICTURE WINDOW -INSTALL (1) NEW PICTURE WINDOW -RETROFIT (1) NEW WINDOW -INSTALL (4) 4" WAFER LIGHTS -INSTALL (1) NEW CEILING FAN
ⓗ	-FRAME OUT FOR NEW WALL SHARED BETWEEN CLOSET #1, CLOSET #2, & LIBRARY; ALLOW FOR NEW POCKET DOOR; INSTALL POCKET DOOR -RETROFIT (2) NEW WINDOWS -INSTALL (1) NEW CEILING FAN -INSTALL (6) NEW 4" WAFER LIGHTS, INCLUDING 1 IN EACH CLOSET -INSTALL (1) PAINT-GRADE WOOD SHELF W/WHITE METAL CLOSET ROD SHELF BRACKET & (1) WOOD CLOSET ROD IN CLOSET #2 -NO SHELVING IN CLOSET #3; FUTURE WINE CLOSET -ADD APPROPRIATE ELECTRICAL FOR FUTURE WINE CLOSET (CURRENTLY CLOSET #3)
ⓘ	-INSTALL (3) 4" WAFER LIGHTS -INSTALL PULL-DOWN ATTIC STAIRS PER CODE -INSTALL (1) PAINT-GRADE WOOD SHELF W/WHITE METAL CLOSET ROD SHELF BRACKET & (1) WOOD CLOSET ROD IN HALL CLOSET
ⓙ	-MOVE TOILET OVER TO BE 18" ON CENTER -INSTALL NEW TILE FLOORING -INSTALL NEW TUB, TILED SHOWER SURROUND, NICHE, SHOWER PLUMBING, & SHOWER SCREEN -INSTALL 44" TALL TILED WAINSCOT WALL -INSTALL NEW TOILET -INSTALL NEW QUARTZ COUNTERTOP, (1) UNDERMOUNT SINK, (1) SINGLE HANDLE FAUCET, (1) MIRROR -PAINT EXISTING VANITY CABINET & INSTALL NEW CABINET HARDWARE -INSTALL (1) HAND TOWEL BAR, (1) T.P. HOLDER, (1) 24" TOWEL BAR, (2) ROBE HOOKS, (10) GRAB BAR -INSTALL NEW PAINT-GRADE WOOD SHELVING IN LINEN CLOSET -INSTALL (4) 4" WAFER LIGHTS, (1) EXHAUST FAN, (1) VANITY LIGHT, (3) SWITCHES -MOVE GFCI OUTLET TO ABOVE TILED WAINSCOT WALL AT LEFT OF VANITY
ⓚ	-INSTALL (1) NEW CEILING FAN W/LIGHT KIT -RETROFIT (4) NEW WINDOWS -INSTALL (1) PAINT-GRADE WOOD SHELF W/WHITE METAL CLOSET ROD SHELF BRACKET & (1) WOOD CLOSET ROD IN CLOSET #1

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DATE: \_\_\_\_\_

**JACOB & STEPHANIE ABRAMI**  
145 THORAIN BLVD  
SAN ANTONIO, TX 78212

**JOB NO.:**  
26-0039

**DESIGNER:**  
KL

**DRAWN BY:**  
KL

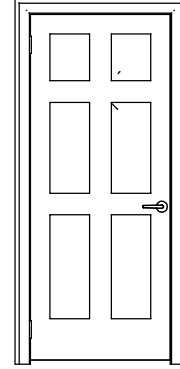
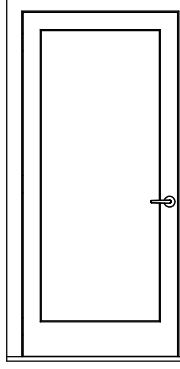
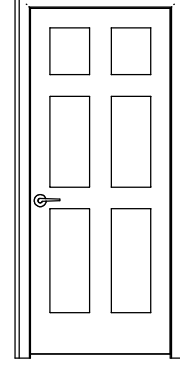
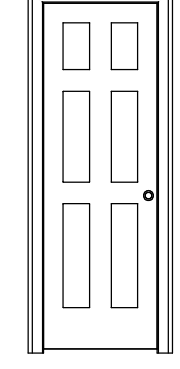
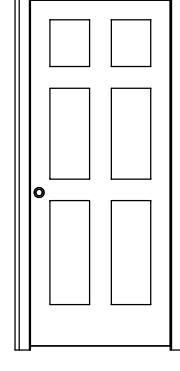
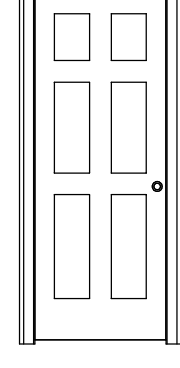
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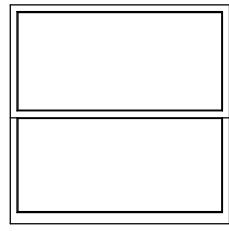
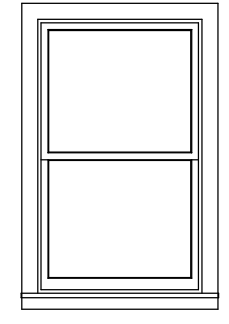
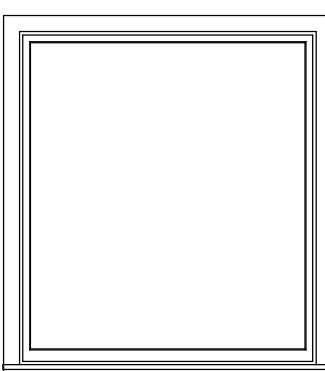
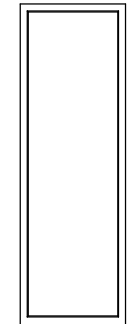
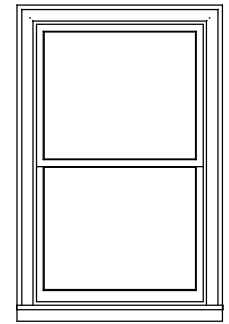
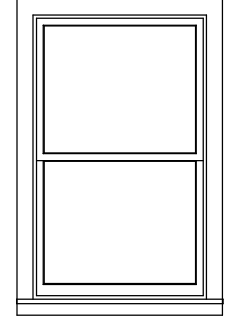
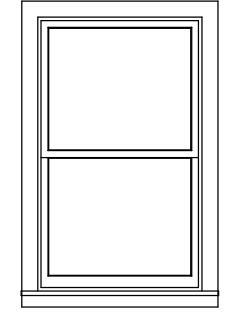
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SCAN FOR SELECTION SCHEDULE



DOOR SCHEDULE						
ELEVATION	SYMBOL	QTY	SIZE	DESCRIPTION	FLOOR	ROOM NAME
	D01	1	2868 R IN	6 PANEL SMOOTH FIRE RATED PRE-HUNG DOOR	1	GARAGE/KITCHEN/DINING
	D02	1	3068 L EX	FULL LITE PRIMED FIBERGLASS PRE-HUNG EXTERIOR DOOR	1	KITCHEN/DINING
	D03	1	2868	6 PANEL SMOOTH SOLID CORE PRE-HUNG INTERIOR DOOR (REUSE EXISTING CLOSET #2 DOOR IF ABLE)	1	PRIMARY BEDROOM/KITCHEN/DINING
	D04	1	2268 R	6 PANEL SMOOTH SOLID CORE POCKET DOOR (MATCH EXISTING INTERIOR DOOR STYLE)	1	WALK-IN CLOSET/PRIMARY BEDROOM
	D05	1	2868 R	6 PANEL SMOOTH SOLID CORE POCKET DOOR (MATCH EXISTING INTERIOR DOOR STYLE)	1	PRIMARY BEDROOM/PRIMARY BATH
	D06	1	2668 L	6 PANEL SMOOTH SOLID WOOD POCKET DOOR (MATCH EXISTING INTERIOR DOOR STYLE)	1	CLOSET #2/LIBRARY

WINDOW SCHEDULE						
ELEVATION	SYMBOL	QTY	SIZE	DESCRIPTION	FLOOR	ROOM NAME
	W01	1	4040DH	PELLA LIFESTYLE TYPE: DOUBLE HUNG GLASS: CLEAR COLOR: FOSSIL EXTERIOR, WHITE INTERIOR INSTALLATION: NEW CONSTRUCTION	1	KITCHEN/DINING
	W02	1	3050DH	PELLA LIFESTYLE TYPE: DOUBLE HUNG GLASS: CLEAR COLOR: FOSSIL EXTERIOR, WHITE INTERIOR INSTALLATION: RETROFIT	1	PRIMARY BEDROOM
	W03	1	5561FX	PELLA LIFESTYLE TYPE: FIXED GLASS: CLEAR COLOR: FOSSIL EXTERIOR, WHITE INTERIOR INSTALLATION: NEW CONSTRUCTION	1	PRIMARY BEDROOM
	W04	1	111511SC	PELLA LIFESTYLE TYPE: CASEMENT GLASS: CLEAR COLOR: FOSSIL EXTERIOR, WHITE INTERIOR INSTALLATION: NEW CONSTRUCTION	1	PRIMARY BATH
	W05	2	3252DH	PELLA LIFESTYLE TYPE: DOUBLE HUNG GLASS: CLEAR COLOR: FOSSIL EXTERIOR, WHITE INTERIOR INSTALLATION: RETROFIT	1	LIBRARY
	W06	4	3252DH	PELLA LIFESTYLE TYPE: DOUBLE HUNG GLASS: CLEAR COLOR: FOSSIL EXTERIOR, WHITE INTERIOR INSTALLATION: RETROFIT	1	BEDROOM #1
	W07	3	3050DH	PELLA LIFESTYLE TYPE: DOUBLE HUNG GLASS: CLEAR COLOR: FOSSIL EXTERIOR, WHITE INTERIOR INSTALLATION: RETROFIT	1	LIVING

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**JACOB & STEPHANIE ABRAMI**  
145 THORAIN BLVD  
SAN ANTONIO, TX 78212  
**DOOR & WINDOW SCHEDULES**

**JOB NO.:**  
26-0039

**DESIGNER:**  
KL

**DRAWN BY:**  
KL

**REVIEWED BY:**  
LC/EA


**ISSUE DATE:**  
06.18.26

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**SHEET NUMBER**

**A3.1**

**\*CONFIRM SIZES ON SITE BEFORE ORDERING\***

LEGEND	
	AREAS N.I.S.



SCAN FOR SELECTION SCHEDULE

**CLIENT APPROVAL**

INITIAL: \_\_\_\_\_

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DATE: \_\_\_\_\_

**JACOB & STEPHANIE ABRAMI**  
145 THORAIN BLVD  
SAN ANTONIO, TX 78212

**EXISTING ROOF PLAN**

**JOB NO.:**

26-0039

**DESIGNER:**

KL

**DRAWN BY:**

KL

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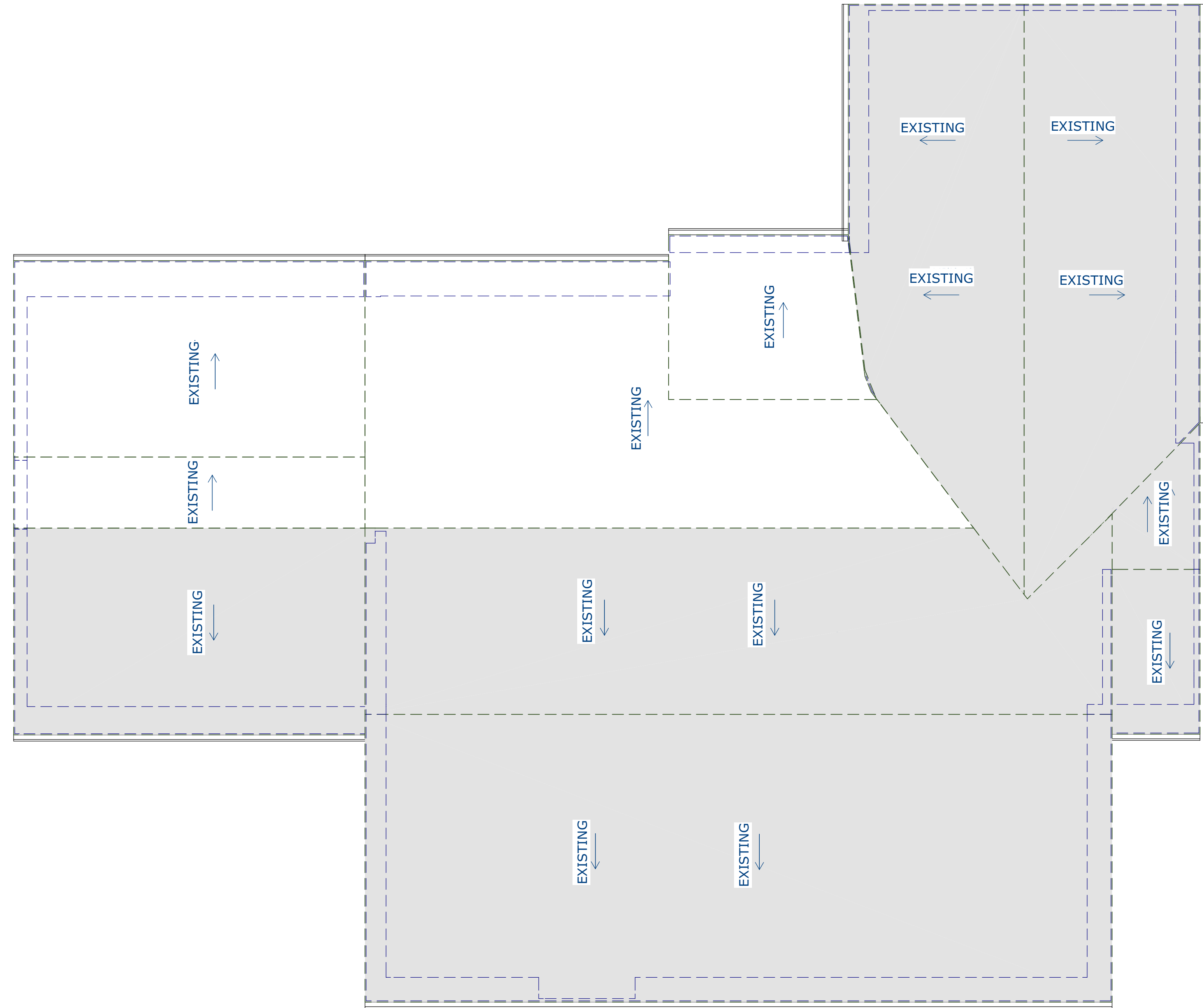
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**1 EXISTING ROOF PLAN**  
Scale: 1/4" = 1'

LEGEND	
	AREAS N.I.S.



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**JACOB & STEPHANIE ABRAMI**  
145 THORAIN BLVD  
SAN ANTONIO, TX 78212

**PROPOSED ROOF PLAN**

**JOB NO.:**

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**DESIGNER:**

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**DRAWN BY:**

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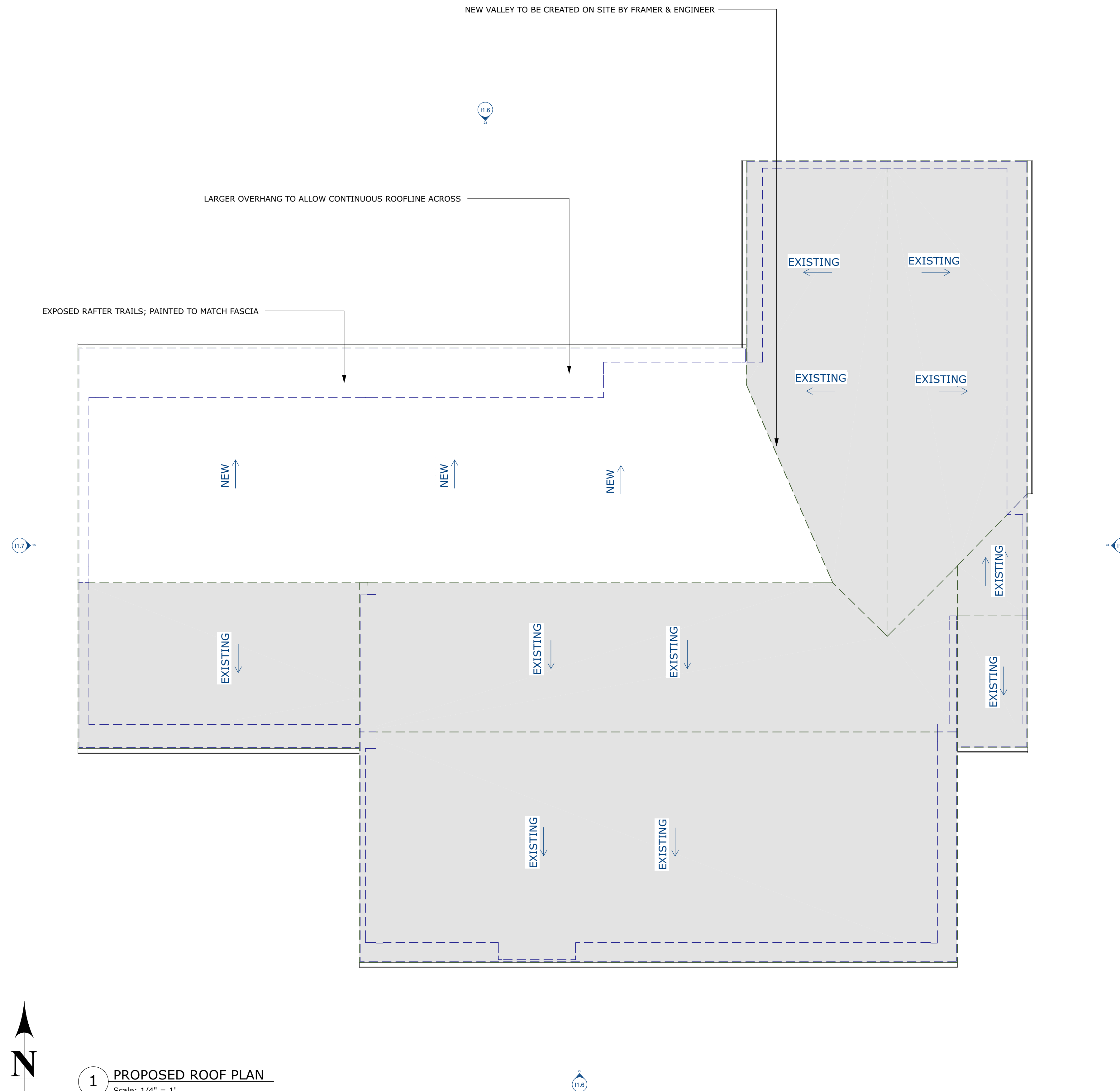
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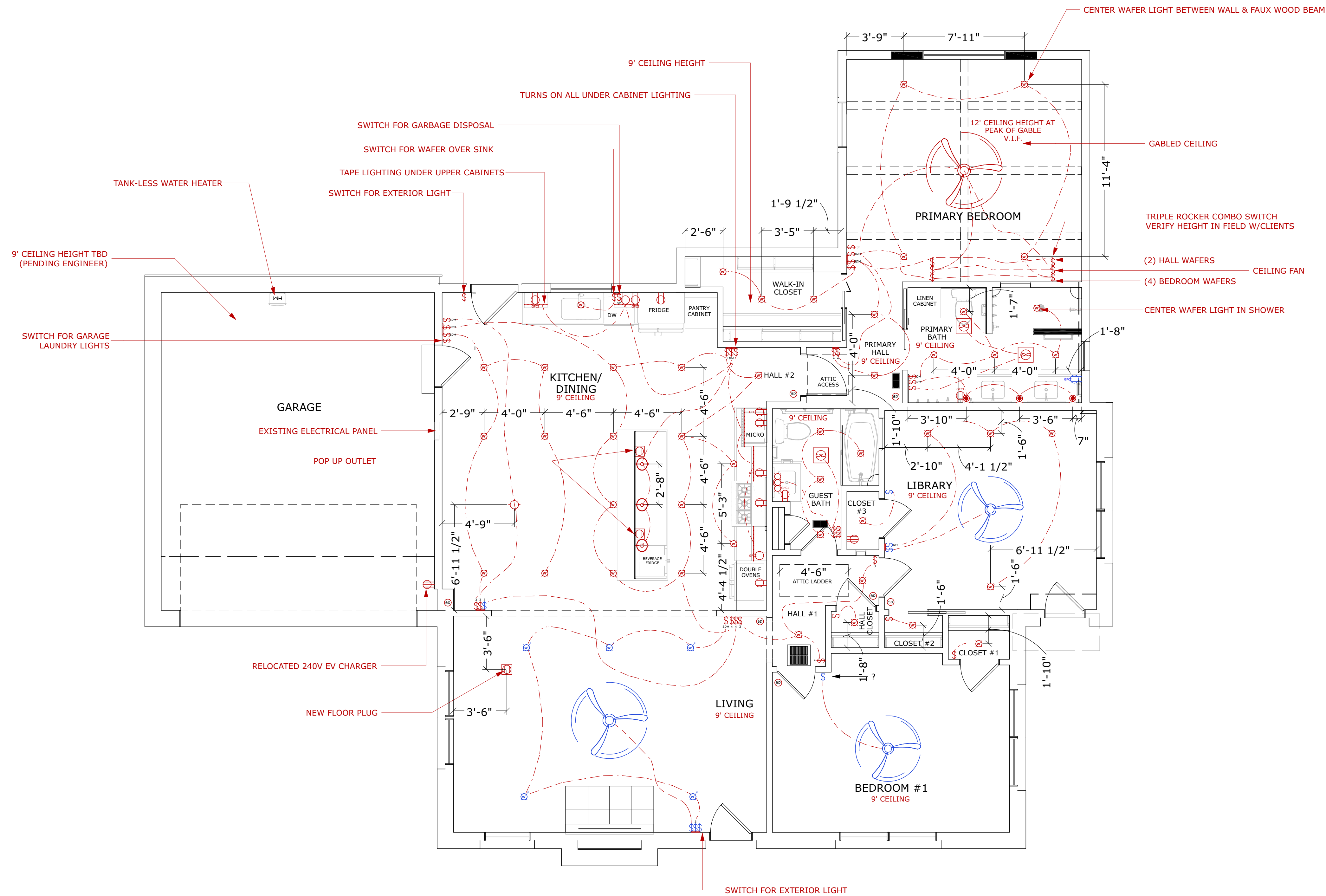
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**1 PROPOSED ROOF PLAN**  
Scale: 1/4" = 1'

# GENERAL ELECTRICAL NOTES

- PLACE OUTLETS WHERE REQUIRED BY BUILDING CODES
- CONFIRM PLACEMENT OF SMOKE DETECTORS PER BUILDING CODES (REF IRC R314.3 FOR LOCATIONS, 314.4 FOR INTERCONNECTION REQUIREMENTS)
- ELECTRICAL NOTES SHOWN ON ELEVATIONS WILL BE IN **RED**
- ALL ELECTRICAL SHOWN ON PLANS IN **RED** IS NEW; ANYTHING IN **BLUE** IS EXISTING FIXTURES TO HAVE AN UPDATED FIXTURE OR DEVICE; ALL ELECTRICAL SHOWN IN **GRAY** IS EXISTING ELECTRICAL AND FIXTURES THAT WILL NOT BE AFFECTED



**1** ELECTRICAL AND REFLECTED CEILING PLAN  
Scale: 1/4" = 1'

FIRST FLOOR ELECTRICAL SCHEDULE		
SYMBOL	DESCRIPTION	QTY
⦿	4" WAFER LIGHT, NEW	46
⦿	NEW 4" WAFER LIGHT, EXISTING LOCATION	5
⦿	3 LIGHT VANITY LIGHT, NEW	1
⦿	CHANDELIER, NEW	1
⦿	PENDANT LIGHT, NEW	3
⦿	WALL SCONCE, NEW	3
⦿	NEW 60" CEILING FAN W/OUT LIGHT KIT, EXISTING LOCATION	1
⦿	NEW 52" CEILING FAN W/LIGHT KIT, EXISTING LOCATION	2
⦿	60" CEILING FAN W/LIGHT KIT, NEW	1
⦿	EXHAUST FAN, NEW	3
⦿	SMOKE DETECTOR, NEW	7
⦿	COUNTERTOP POP-UP OUTLET, NEW	2
⦿	SINGLE POLE TOGGLE SWITCH, NEW	12
⦿	NEW SINGLE POLE TOGGLE SWITCH, EXISTING LOCATION	5
⦿	LUTRON SKYLARK LED+DIMMER 3-WAY DIMMER SWITCH, NEW	6
⦿	NEW LUTRON SKYLARK LED+DIMMER SINGLE POLE DIMMER, EXISTING LOCATION	1
⦿	LUTRON SKYLARK LED+DIMMER SINGLE POLE DIMMER, NEW	3
⦿	LEVITON 3-ROCKER COMBO SWITCH, NEW	2
⦿	3-WAY TOGGLE SWITCH, NEW	6
⦿	NEW 3-WAY TOGGLE SWITCH, EXISTING LOCATION	2
⦿	4-WAY TOGGLE SWITCH, NEW	5
⦿	GARBAGE DISPOSAL SWITCH, NEW	1
⦿	GFCI OUTLET, NEW	7
⦿	NEW GFCI OUTLET, EXISTING LOCATION	1
⦿	120V APPLIANCE OUTLET, NEW	5
⦿	TAPE LIGHTING, NEW	5
⦿	DUPLEX FLOOR MOUNTED RECEPTACLE, NEW	1
⦿	220V, NEW	2



SCAN FOR SELECTION SCHEDULE

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145 THORAIN BLVD  
SAN ANTONIO, TX 78212

**ELECTRICAL & REFLECTED CEILING PLAN**

**JOB NO.:**

26-0039

**DESIGNER:**

KL

**DRAWN BY:**

KL

**REVIEWED BY:**

LC/EA

**ISSUE DATE:**

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**JACOB & STEPHANIE ABRAMI**  
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SAN ANTONIO, TX 78212

**WALL FINISH PLAN**

**JOB NO.:**

26-0039

**DESIGNER:**

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**DRAWN BY:**

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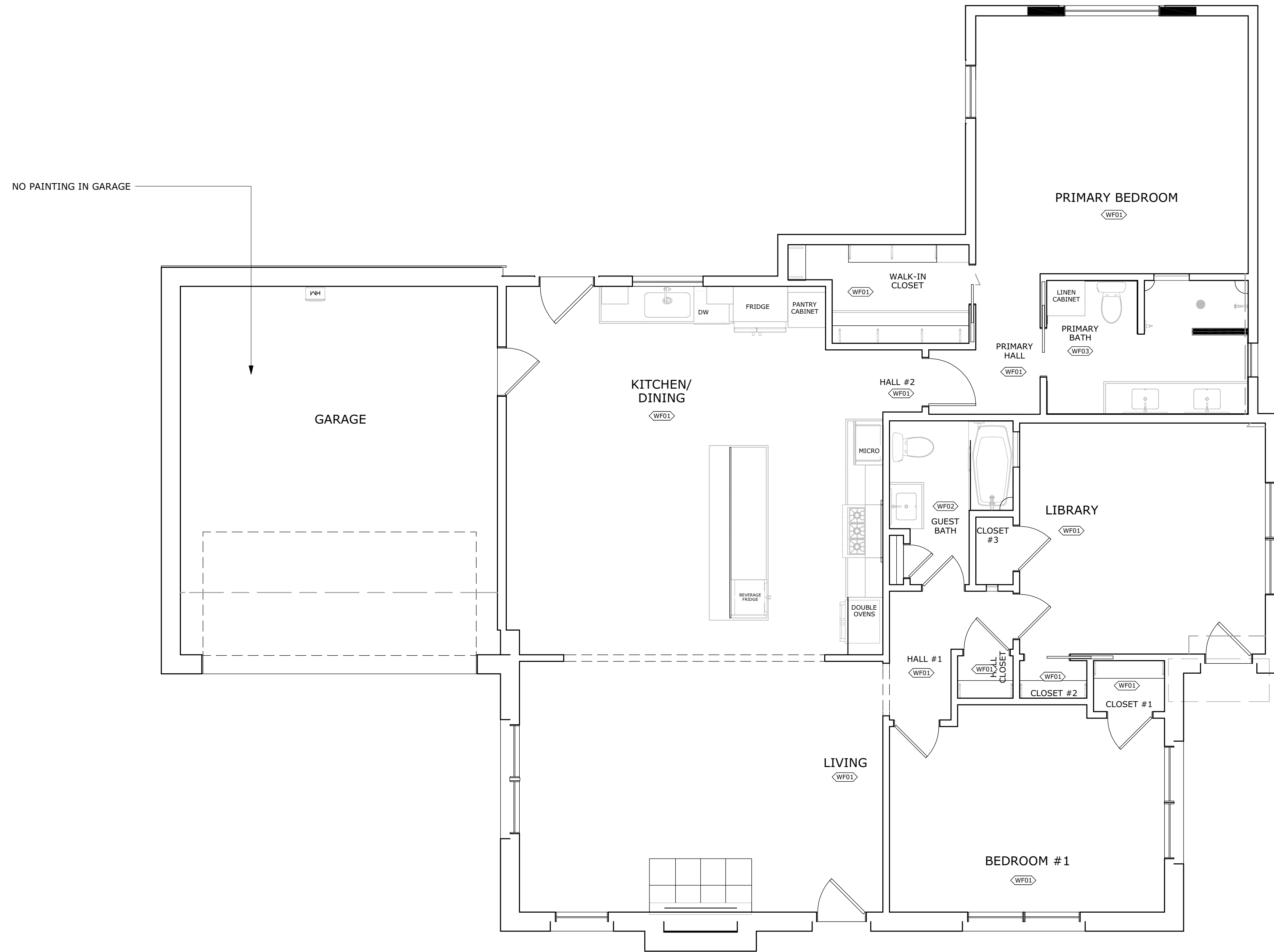
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NO PAINTING IN GARAGE

**1 WALL FINISH PLAN**  
Scale: 1/4" = 1'

WALL FINISH SCHEDULE	
SYMBOL	DESCRIPTION
WF01	WALLS: SW 7035 AESTHETIC WHITE - EGGSHELL CEILINGS: SW 7005 PURE WHITE - FLAT TRIM & DOORS: SW 7005 PURE WHITE - SATIN *SAMPLE ON SITE*
WF02	WALLS: SW 7005 PURE WHITE - EGGSHELL CEILINGS: SW 7005 PURE WHITE - FLAT TRIM & DOORS: SW 7005 PURE WHITE - SATIN *SAMPLE ON SITE*
WF03	WALLS: SW 6162 ANCIENT MARBLE - EGGSHELL CEILINGS: SW 7005 PURE WHITE - FLAT TRIM & DOORS: SW 7005 PURE WHITE - SATIN *SAMPLE ON SITE*



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**JACOB & STEPHANIE ABRAMI**  
145 THORAIN BLVD  
SAN ANTONIO, TX 78212

**MATERIAL & COUNTERTOP PLAN**

**JOB NO.:**  
26-0039

**DESIGNER:**  
KL

**DRAWN BY:**  
KL

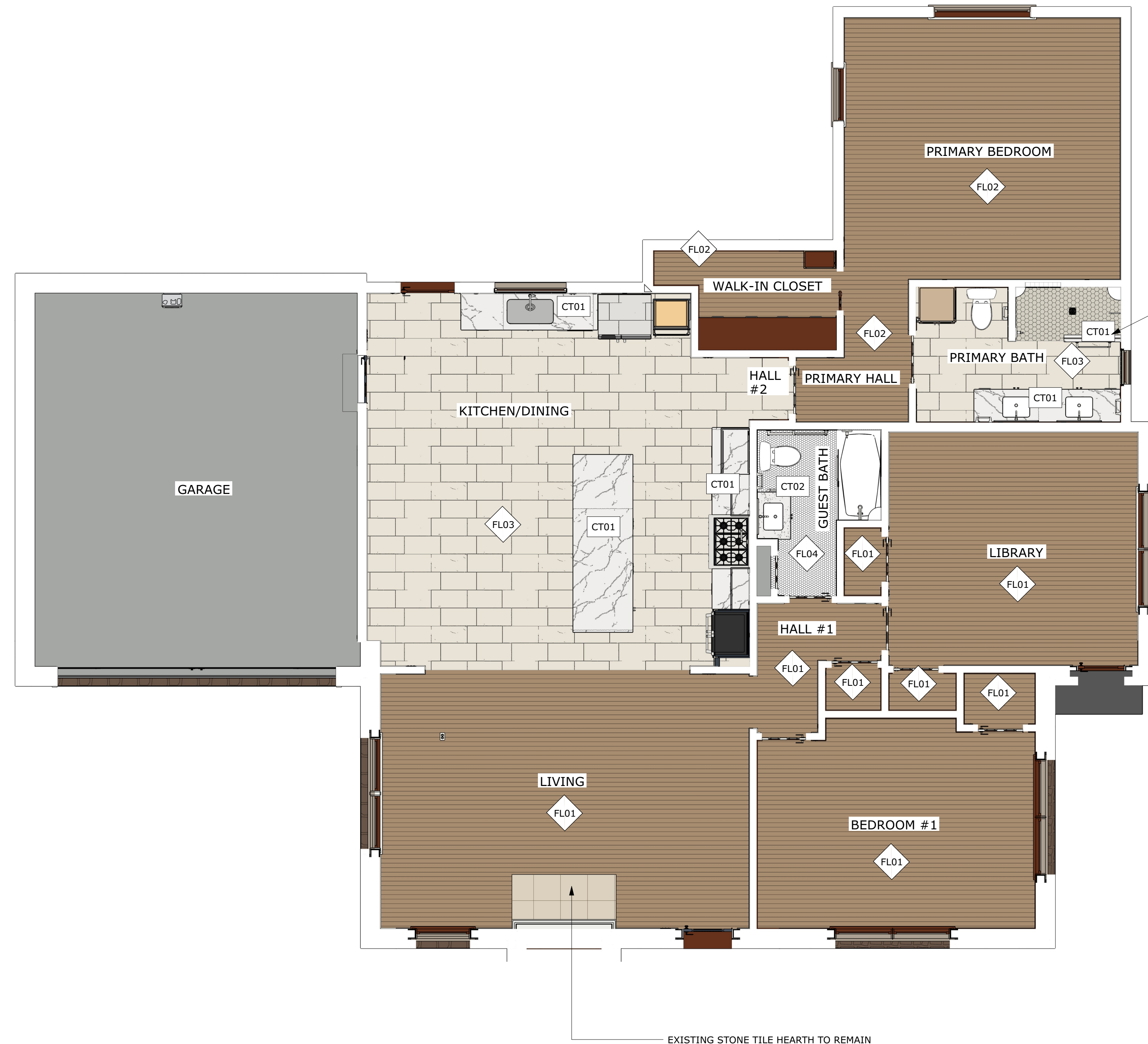
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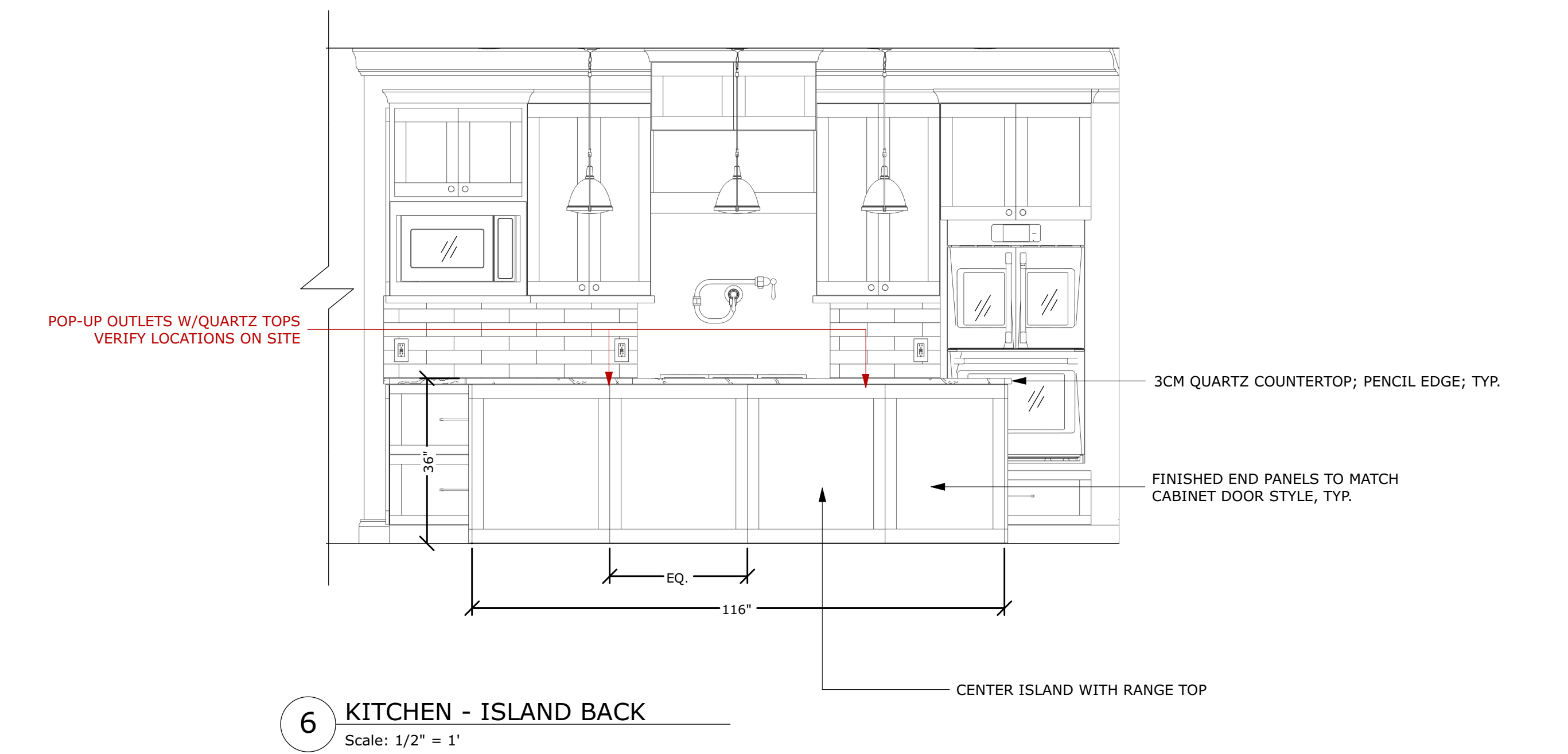
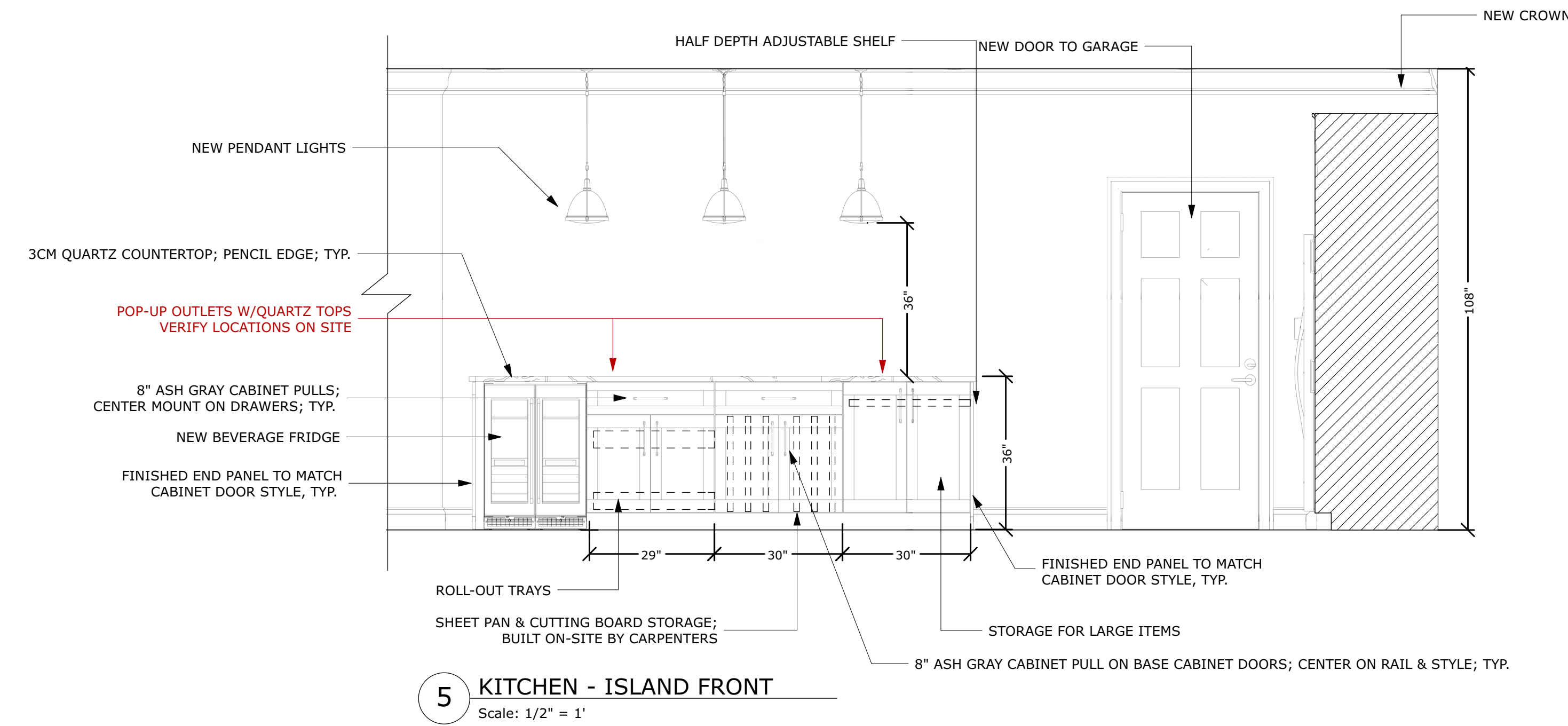
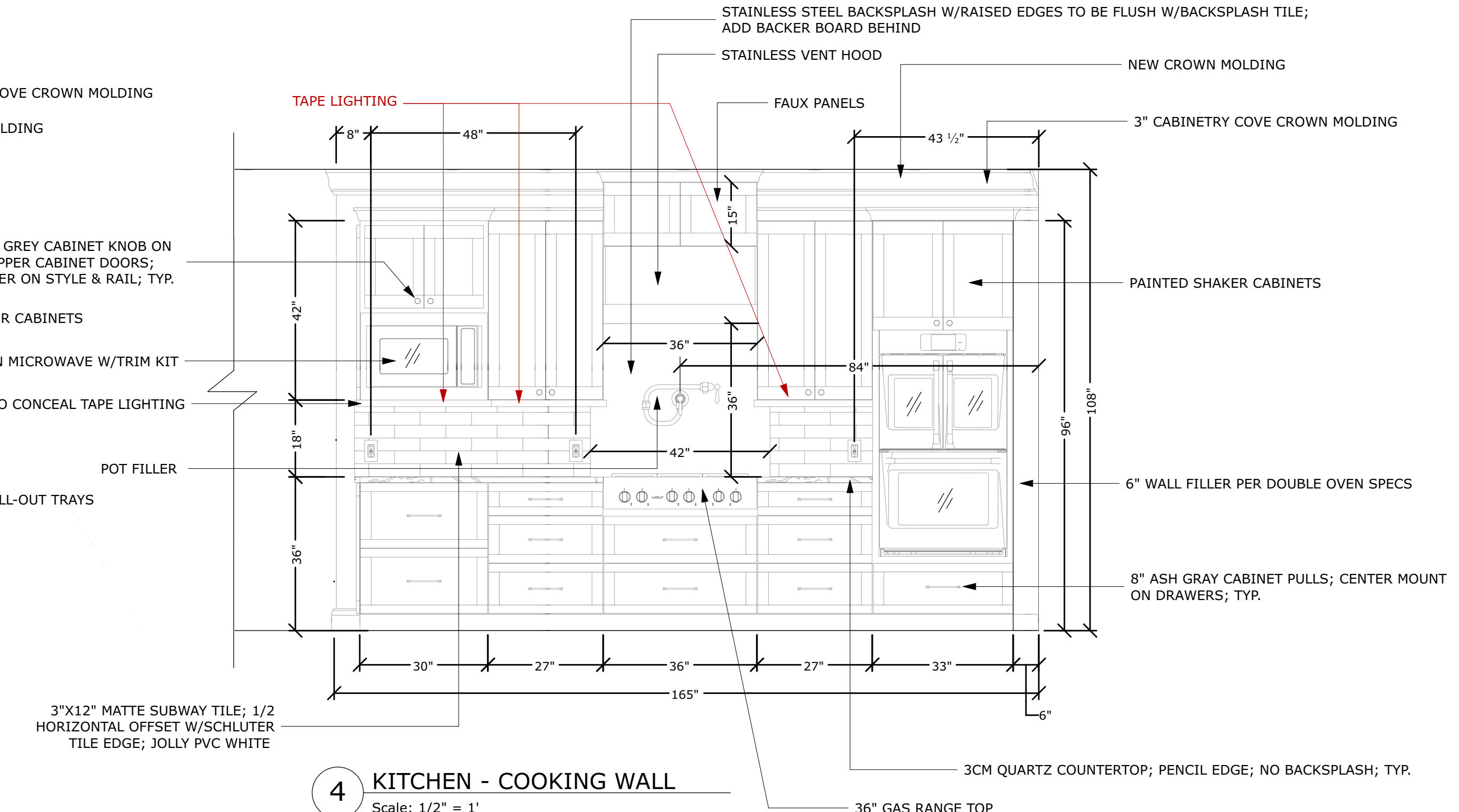
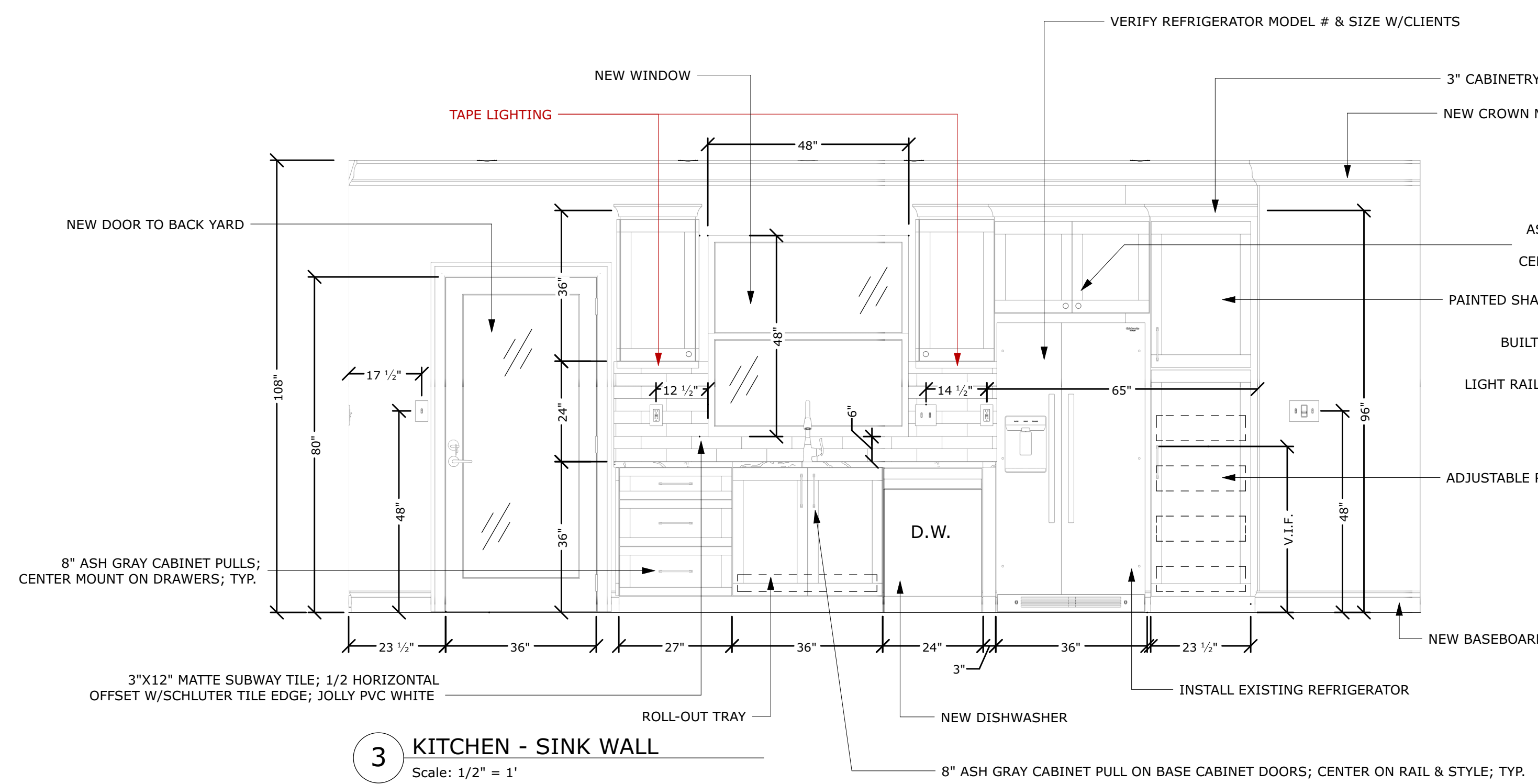
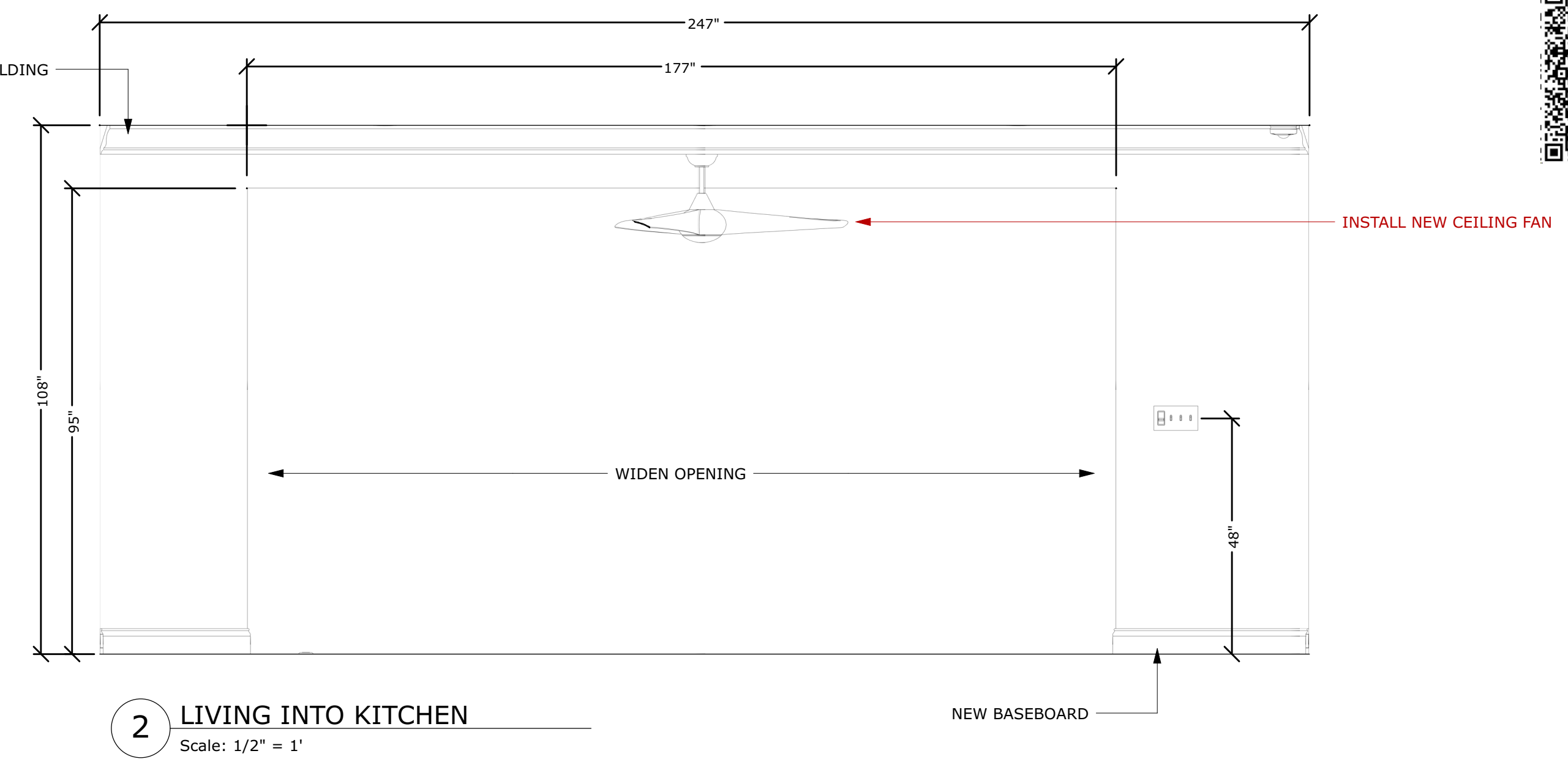
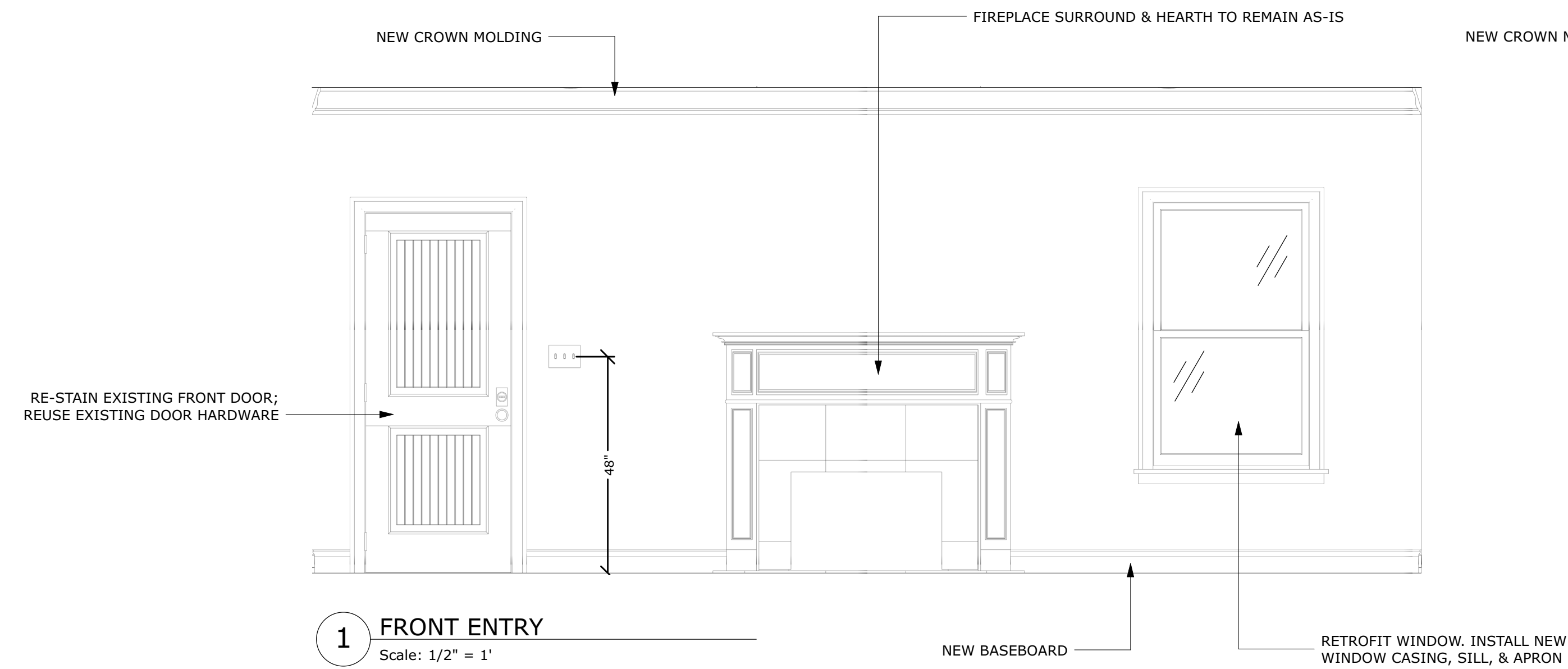
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COUNTERTOP SCHEDULE		
SYMBOL	ROOM	DESCRIPTION
CT01	KITCHEN/DINING, PRIMARY BATH	TYPE: QUARTZ THICKNESS: 3CM EDGE: PENCIL BACKSPLASH: N/A
CT02	GUEST BATH	TYPE: QUARTZ THICKNESS: 3CM EDGE: PENCIL BACKSPLASH: N/A

FLOORING SCHEDULE		
SYMBOL	ROOM	DESCRIPTION
FL01	LIVING, HALL #1, BED #1, LIBRARY, HALL CLOSET, CLOSET #1, CLOSET #2, #3	TYPE: EXISTING 2" RED OAK HARDWOOD FLOORING STAIN COLOR: TBD (SAMPLE ON SITE) TOP COAT SHEEN: TBD (SAMPLE ON SITE)
FL02	PRIMARY BEDROOM	TYPE: 2" RED OAK HARDWOOD FLOORING (MATCH TO EXISTING WOOD AT FRONT OF HOME) STAIN COLOR: TBD (SAMPLE ON SITE) TOP COAT SHEEN: TBD (SAMPLE ON SITE)
FL03	KITCHEN/DINING, PRIMARY BATH	TYPE: PORCELAIN TILE SIZE: 12X24 LAYOUT: 1/3 OFFSET
FL04	GUEST BATH	TYPE: PORCELAIN TILE SIZE: 1X1 HEX ON 12X12 MESH SHEET LAYOUT: MESH SHEET

**1 MATERIAL & COUNTERTOP PLAN**  
Scale: 1/4" = 1'



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**JACOB & STEPHANIE ABRAMI**  
145 THORAIN BLVD  
SAN ANTONIO, TX 78212

**ELEVATIONS**

**JOB NO.:**  
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**ELEVATIONS**

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**REVIEWED BY:**

LC/EA

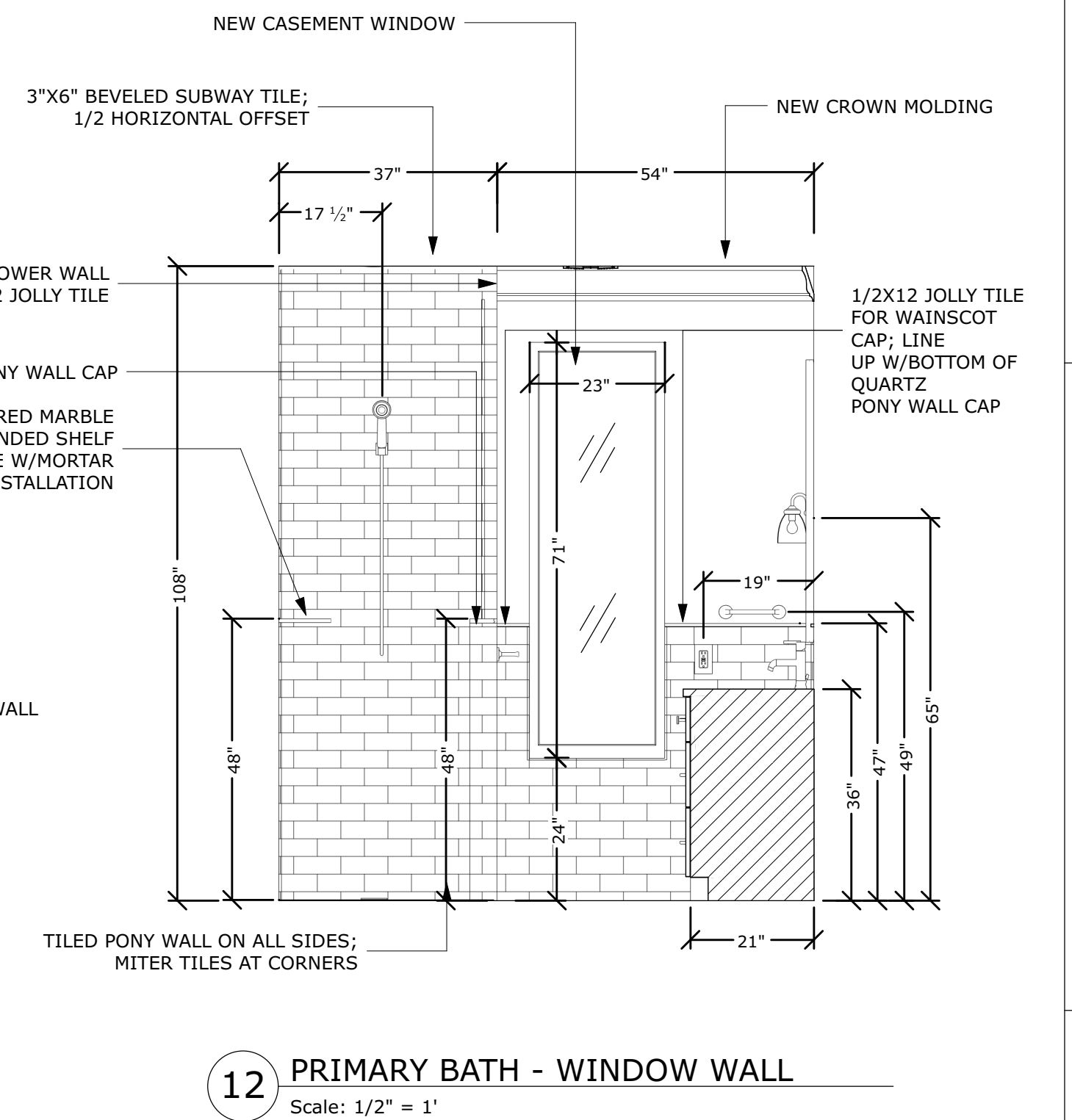
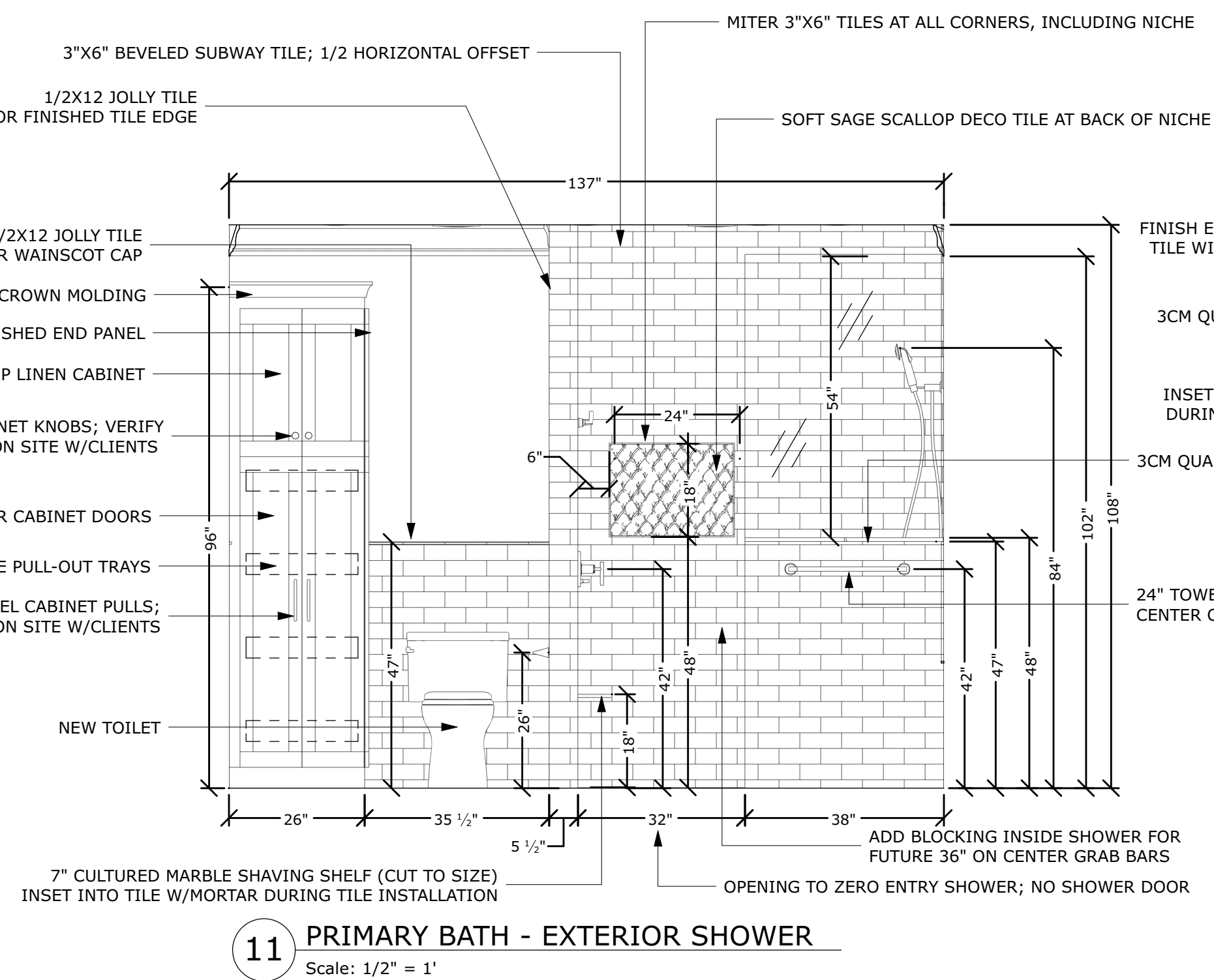
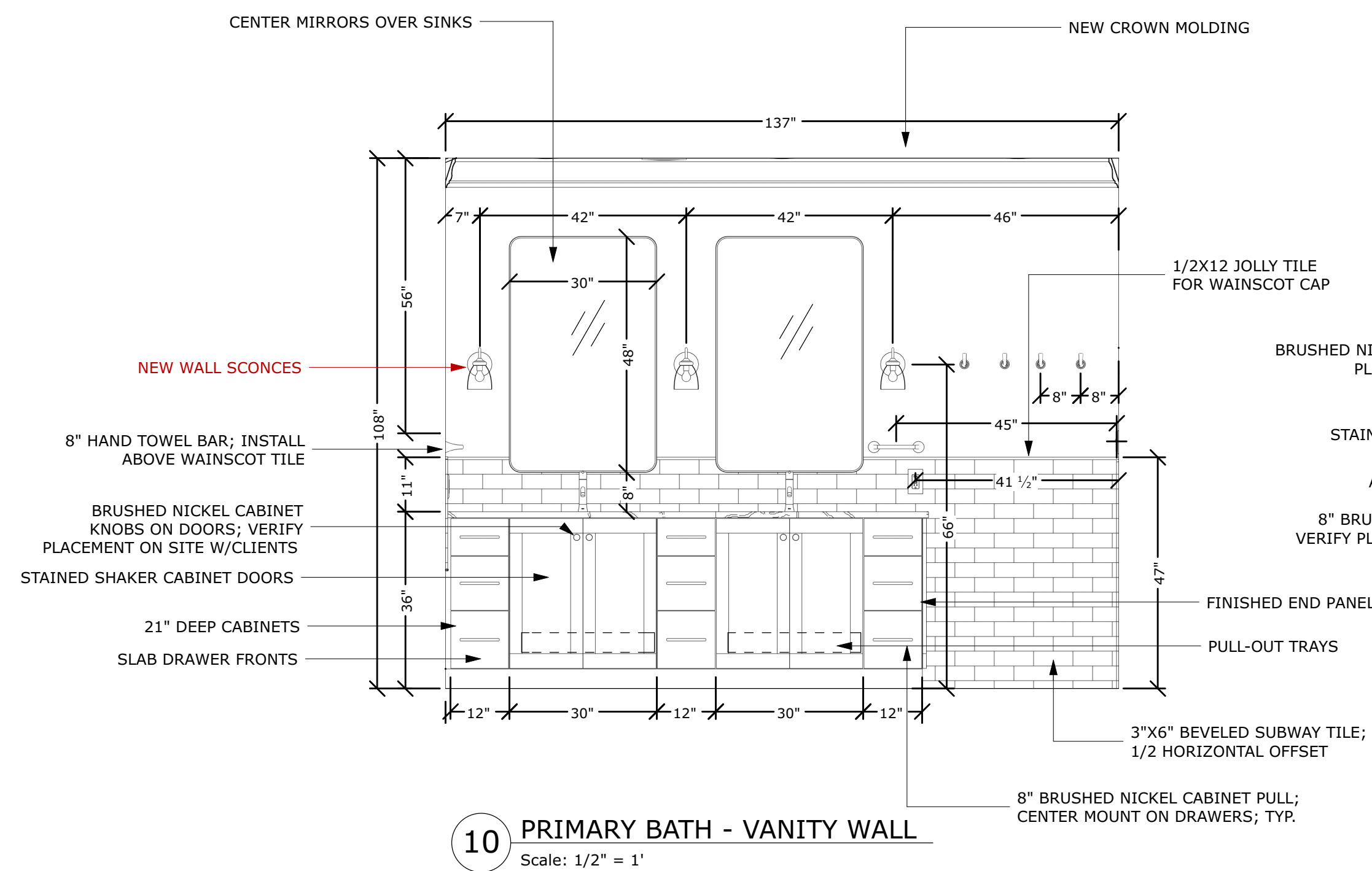
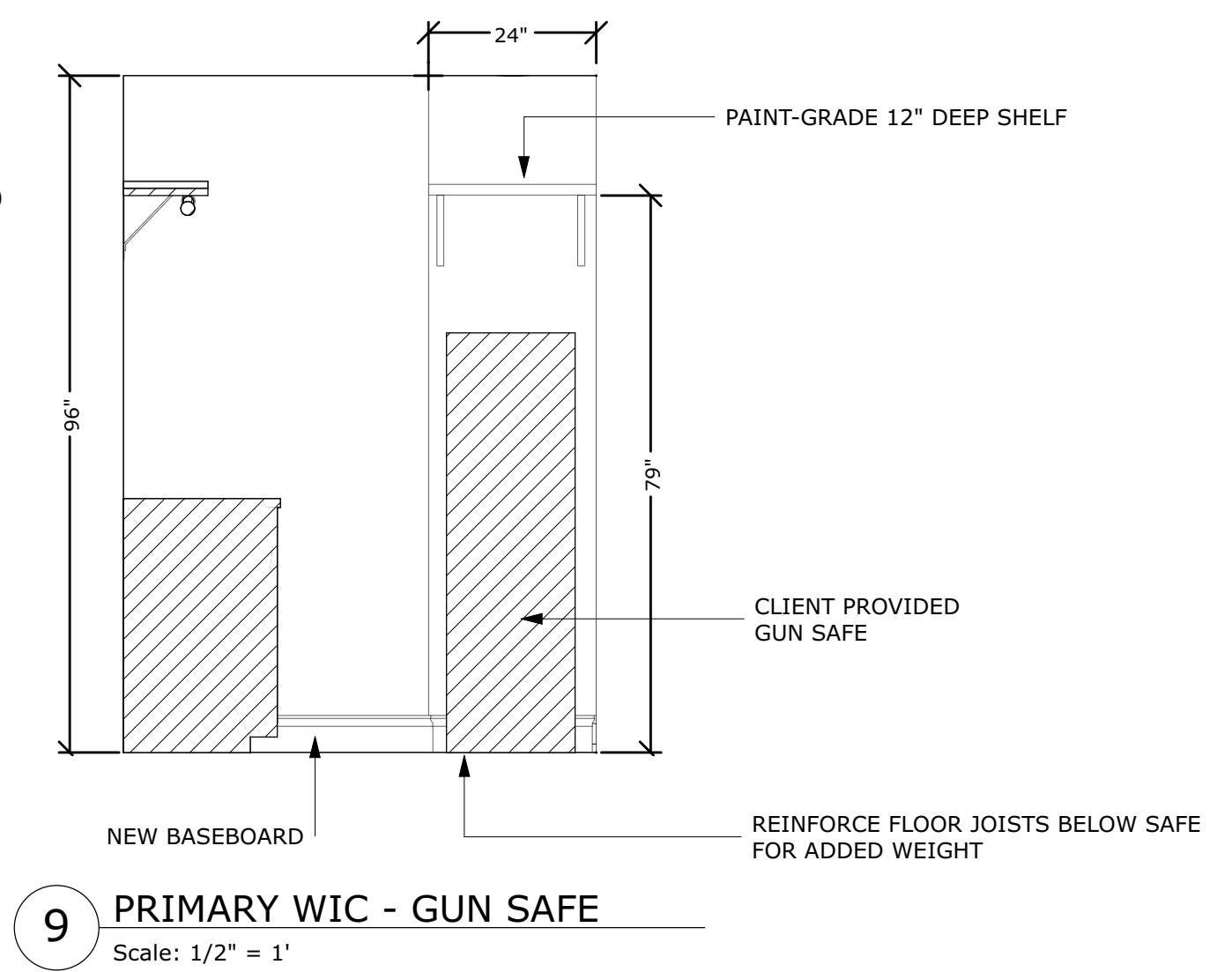
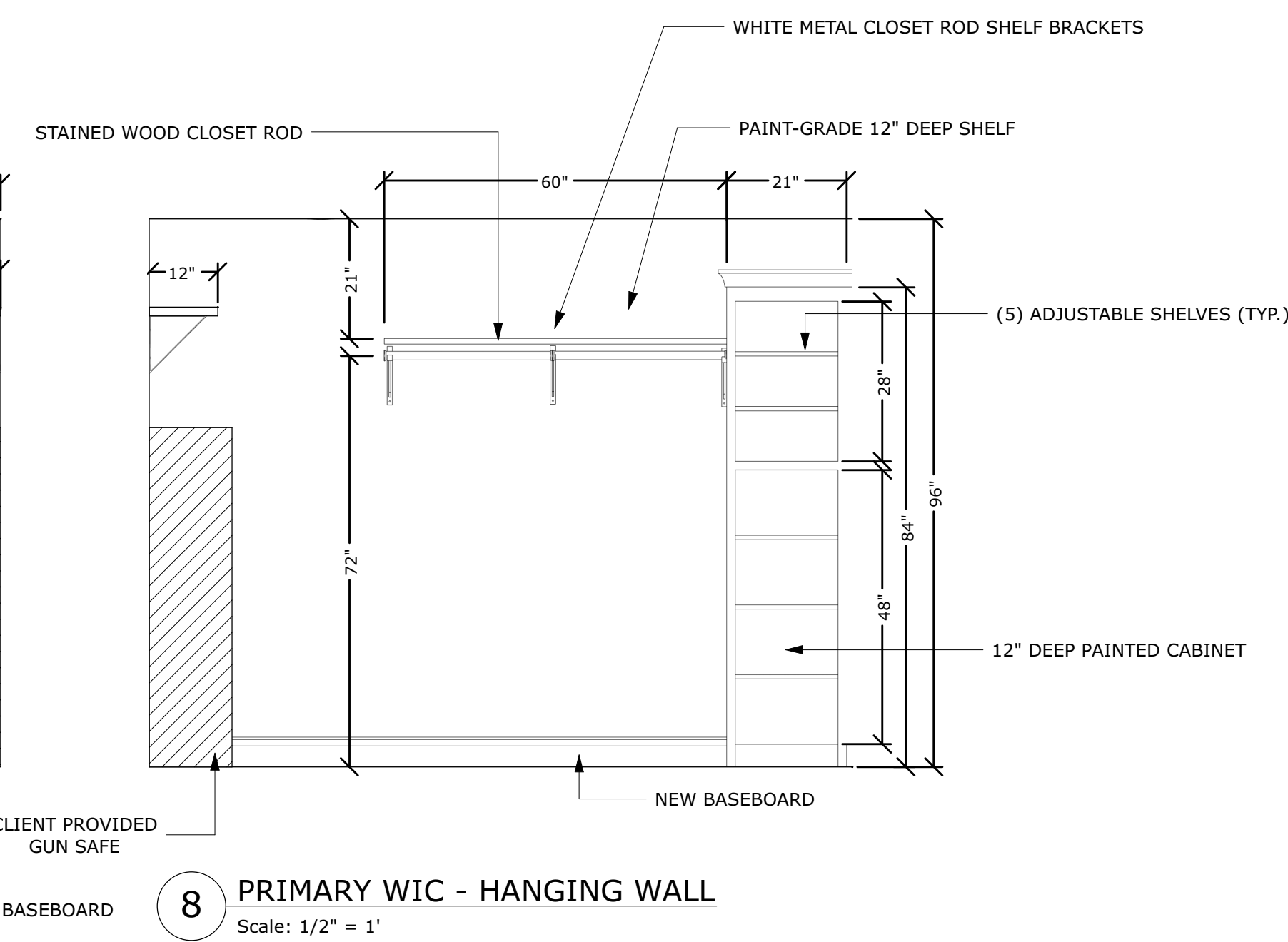
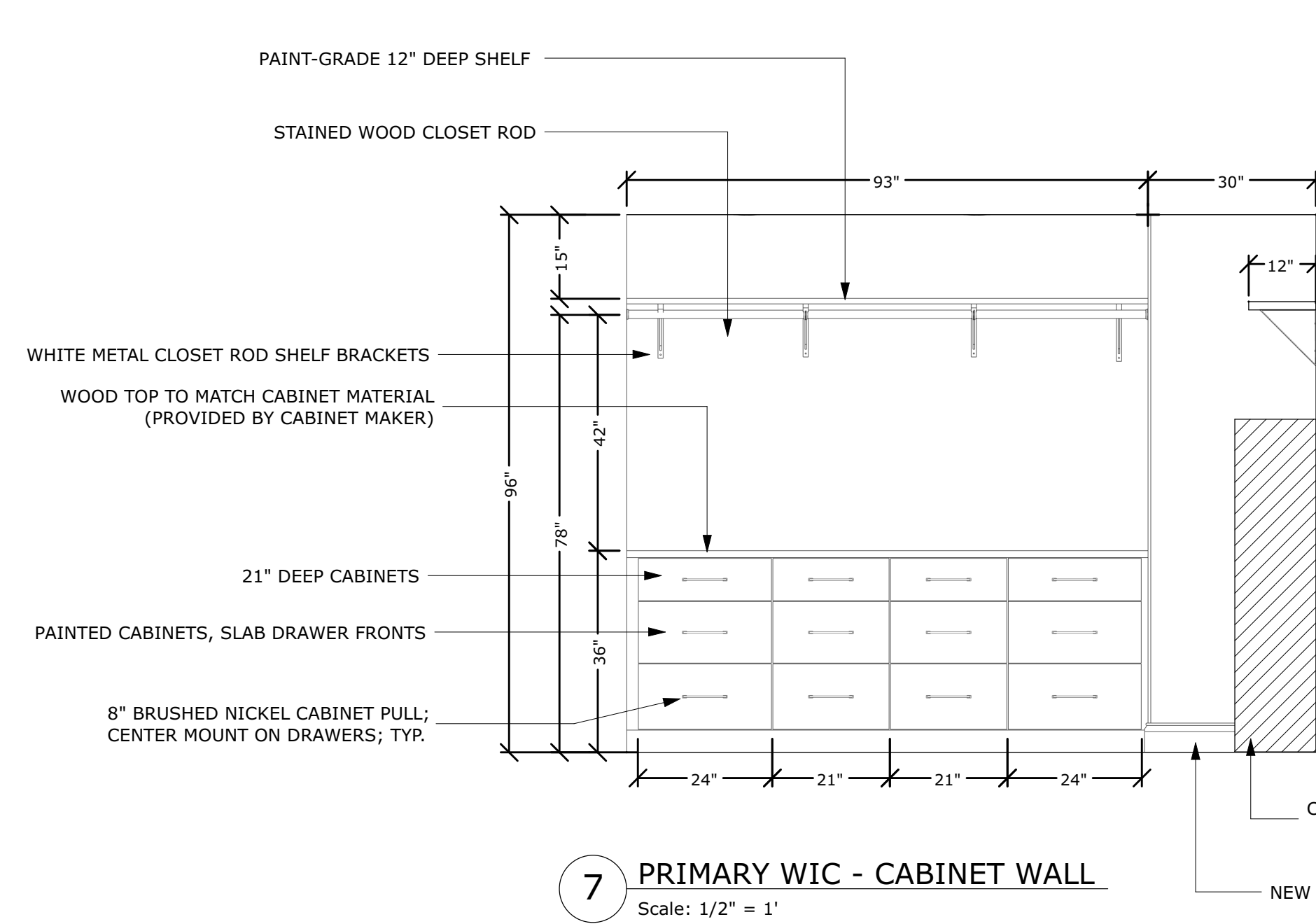
**ISSUE DATE:**

06.18.26

**REVISION DATES:**

**SHEET NUMBER**

**I1.2**





SCAN FOR SELECTION SCHEDULE

**CLIENT APPROVAL**

INITIAL:

DATE:

INITIAL:

DATE:

**JACOB & STEPHANIE ABRAMI**  
145 THORAIN BLVD  
SAN ANTONIO, TX 78212

**ELEVATIONS**

**JOB NO.:**

26-0039

**DESIGNER:**

KL

**DRAWN BY:**

KL

**REVIEWED BY:**

LC/EA

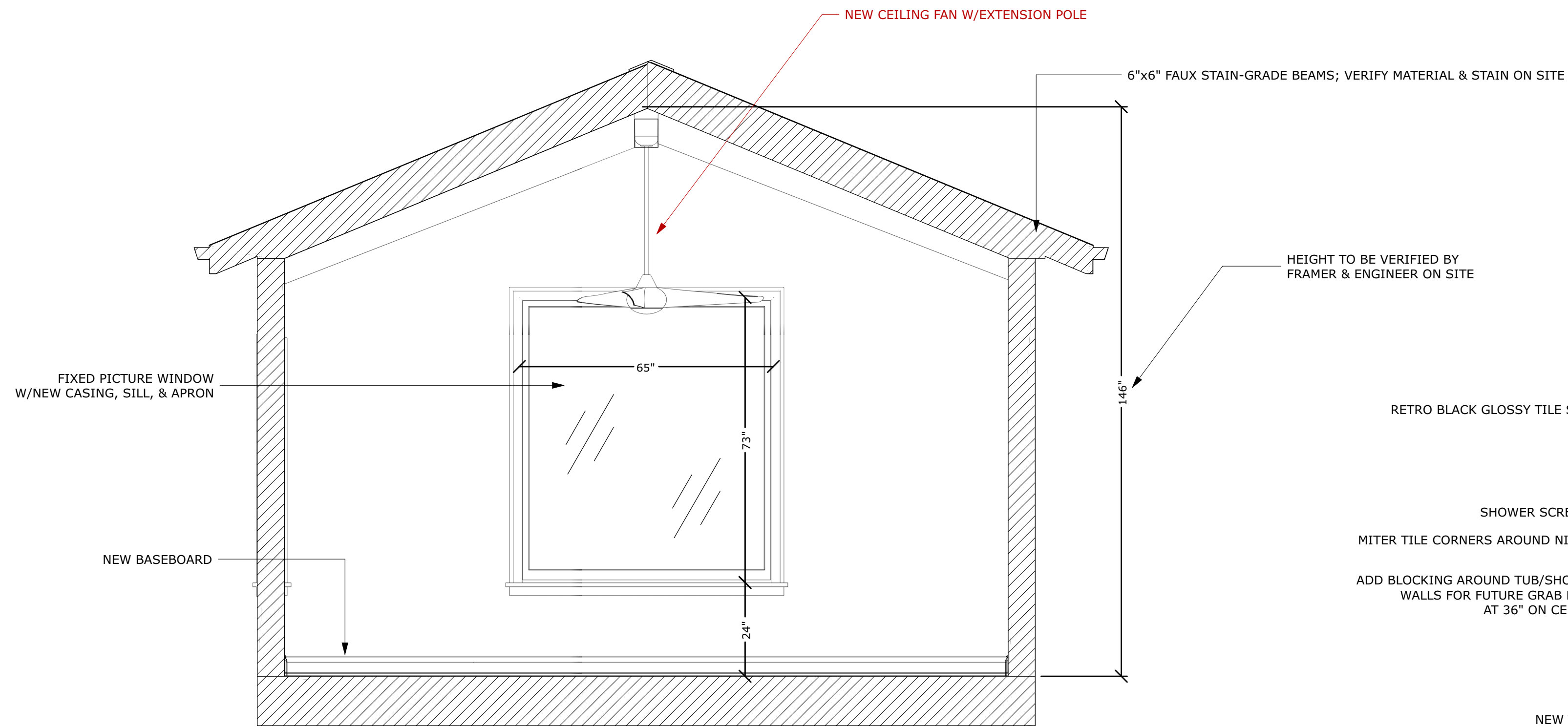
**ISSUE DATE:**

06.18.26

**REVISION DATES:**

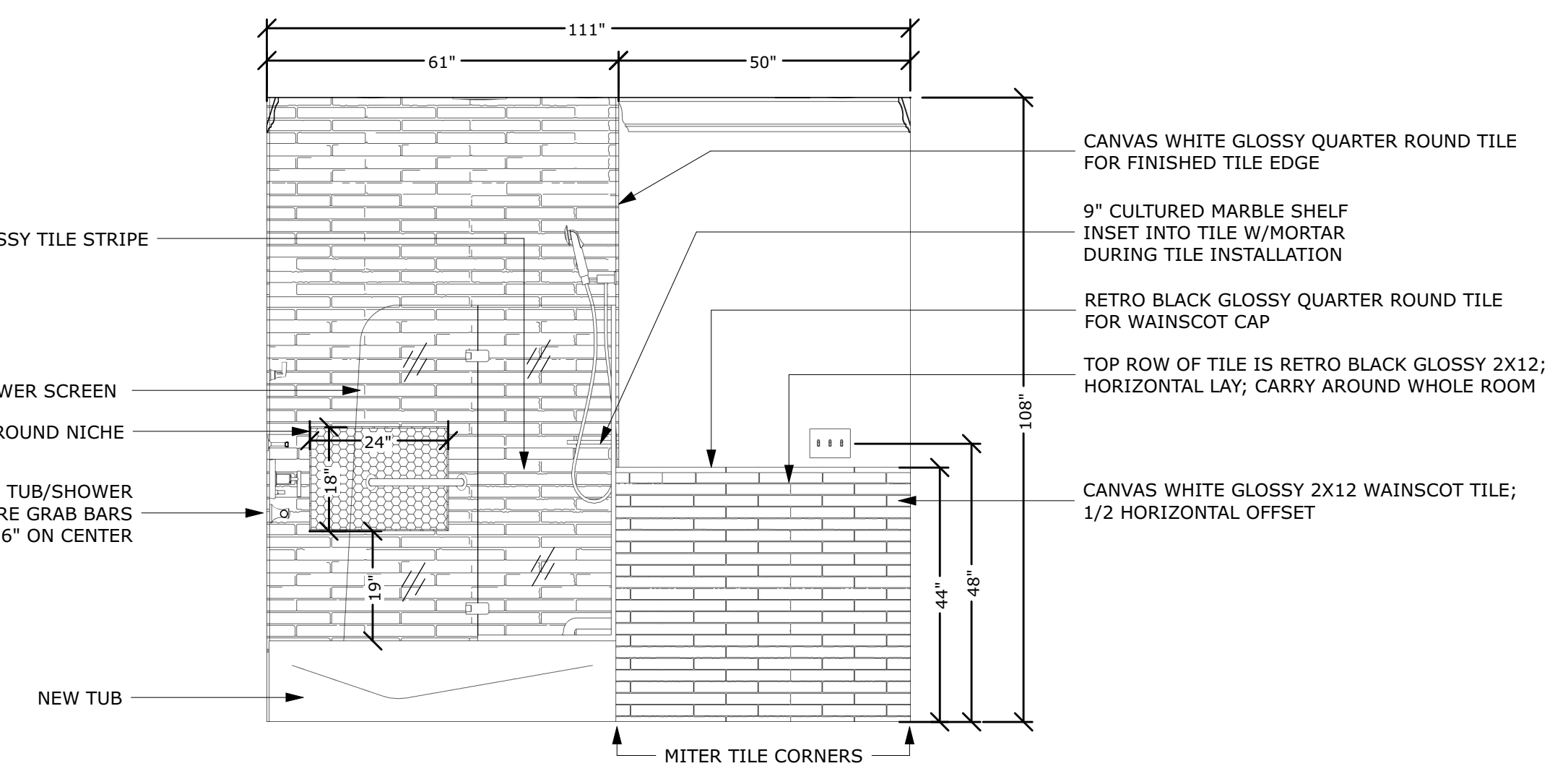
**SHEET NUMBER**

**I1.3**

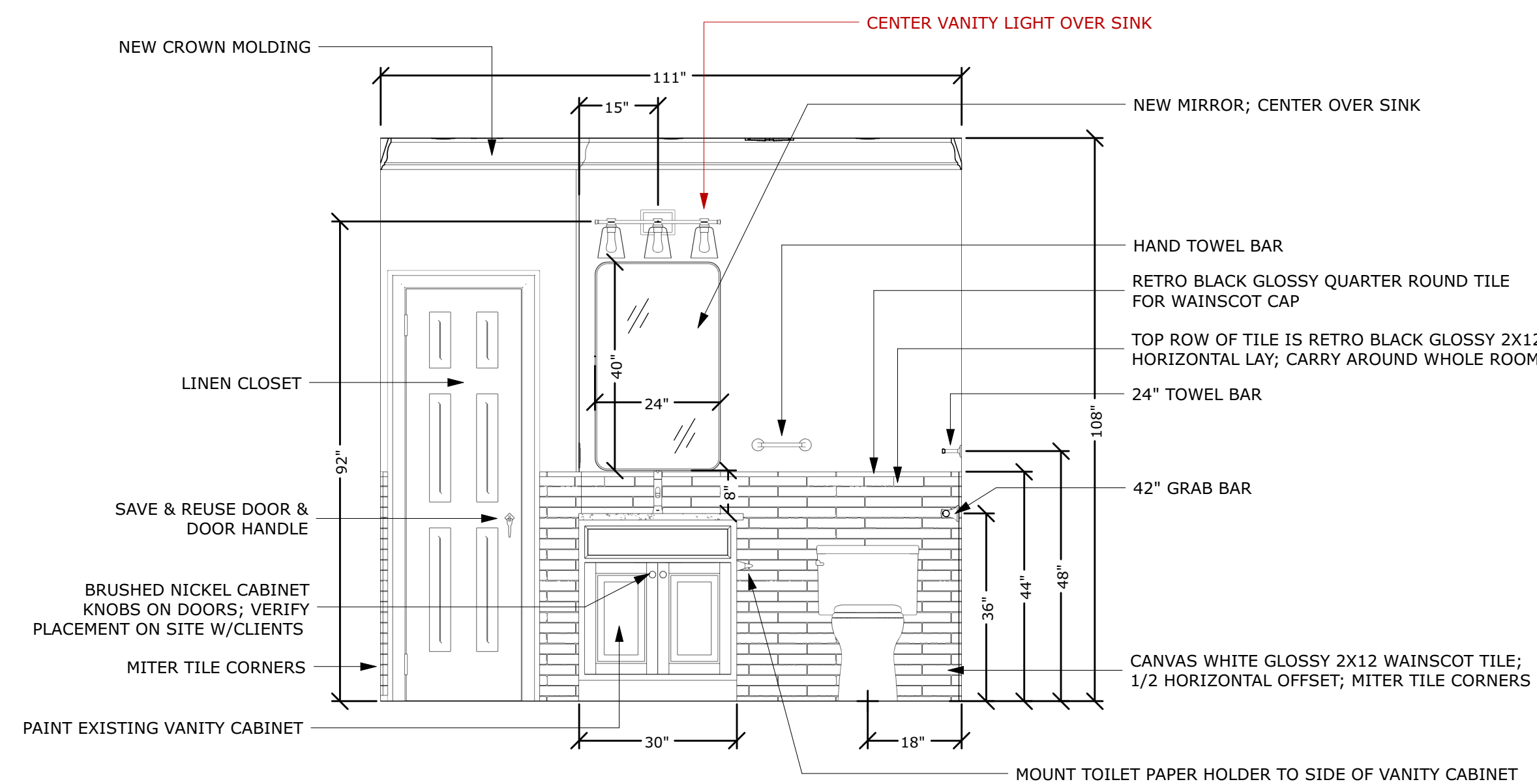


**13 PRIMARY BEDROOM - WINDOW WALL CROSS SECTION**  
Scale: 1/2" = 1'

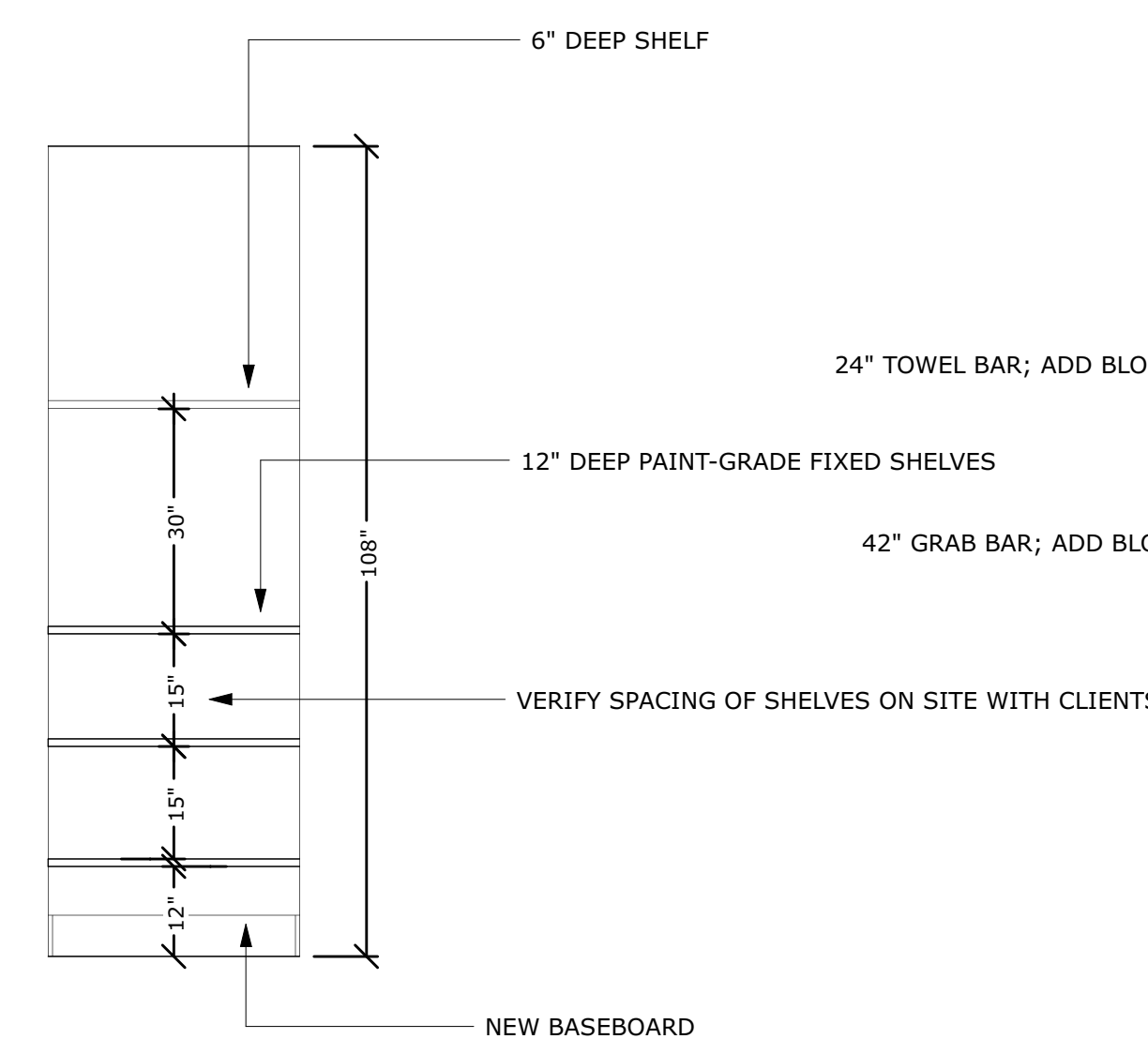
HEIGHT TO BE VERIFIED BY FRAMER & ENGINEER ON SITE



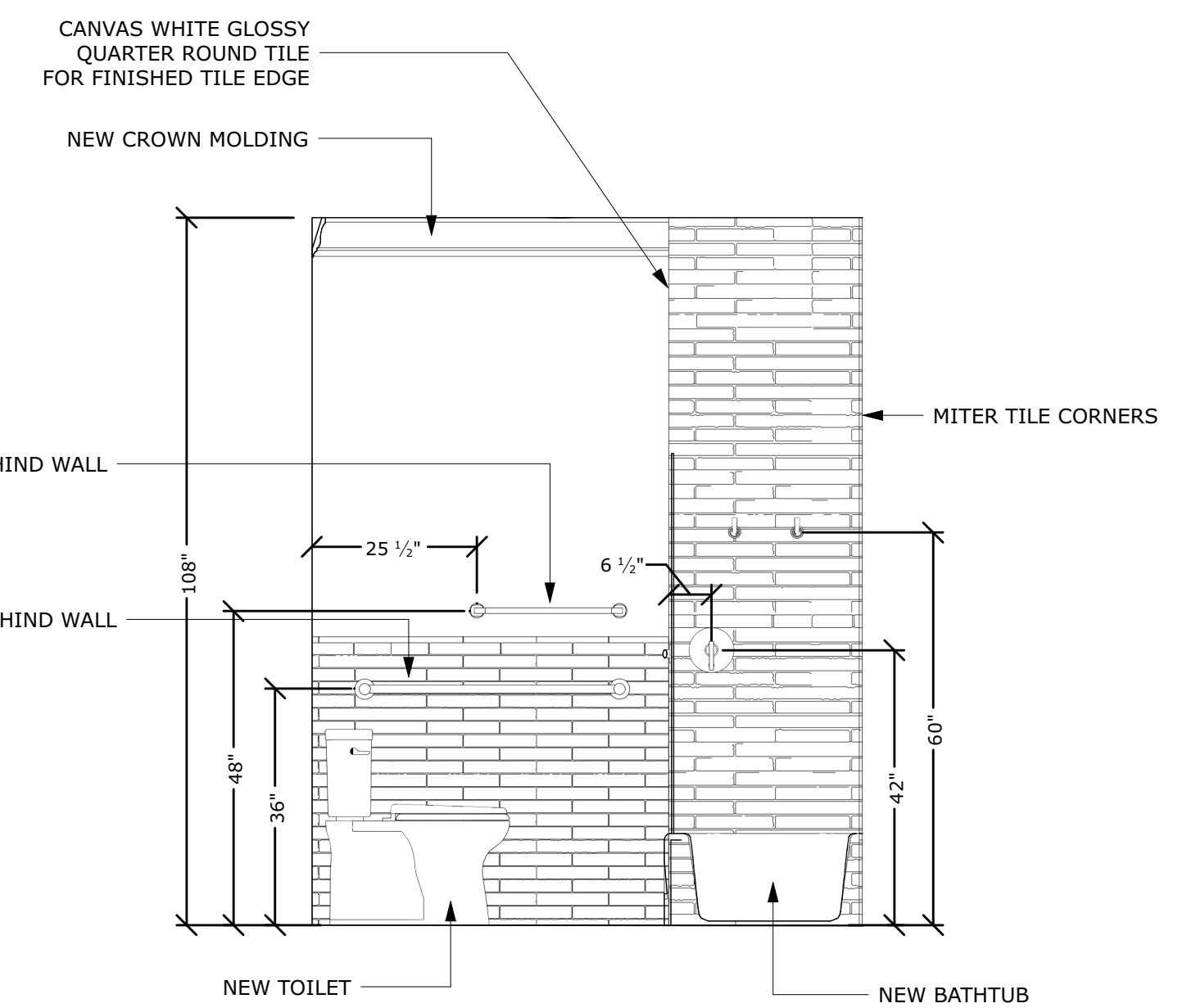
**14 GUEST BATH - TUB WALL**  
Scale: 1/2" = 1'



**15 GUEST BATH - VANITY WALL**  
Scale: 1/2" = 1'



**16 GUEST BATH - LINEN CLOSET SHELVING**  
Scale: 1/2" = 1'



**17 GUEST BATH - GRAB BAR WALL**  
Scale: 1/2" = 1'



SCAN FOR SELECTION SCHEDULE

**CLIENT APPROVAL**

INITIAL: \_\_\_\_\_

DATE: \_\_\_\_\_

INITIAL: \_\_\_\_\_

DATE: \_\_\_\_\_

**JACOB & STEPHANIE ABRAMI**  
145 THORAIN BLVD  
SAN ANTONIO, TX 78212

**EXTERIOR ELEVATIONS**

**JOB NO.:**

26-0039

**DESIGNER:**

KL

**DRAWN BY:**

KL

**REVIEWED BY:**

LC/EA

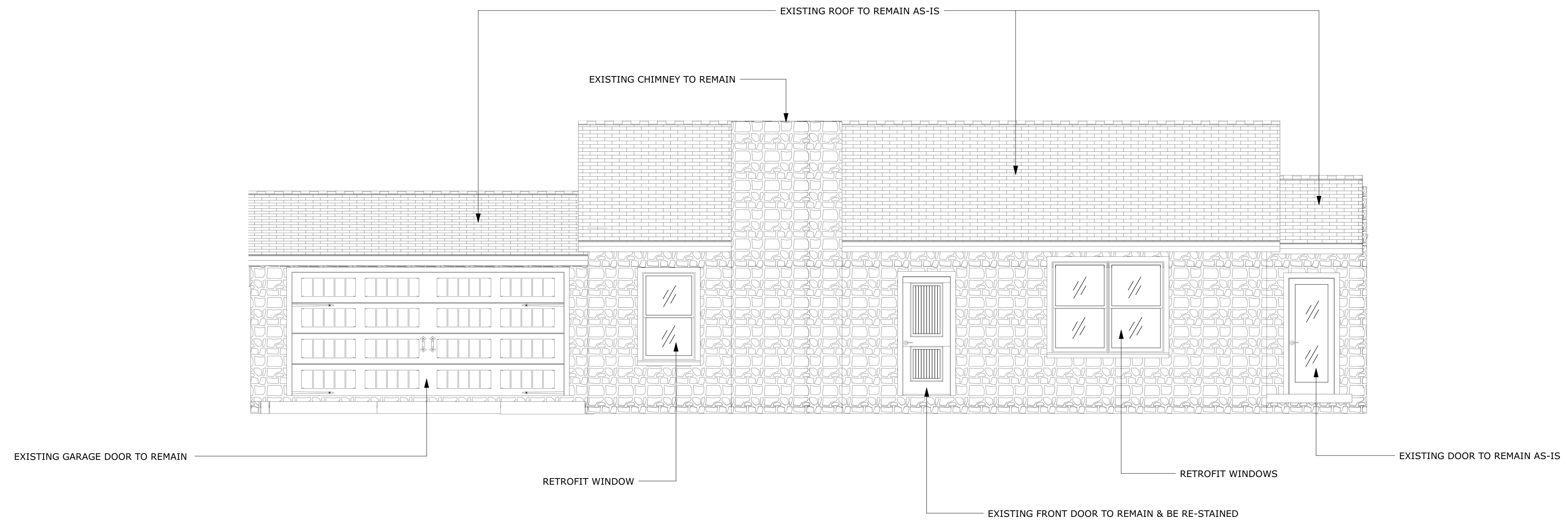
**ISSUE DATE:**

06.18.26

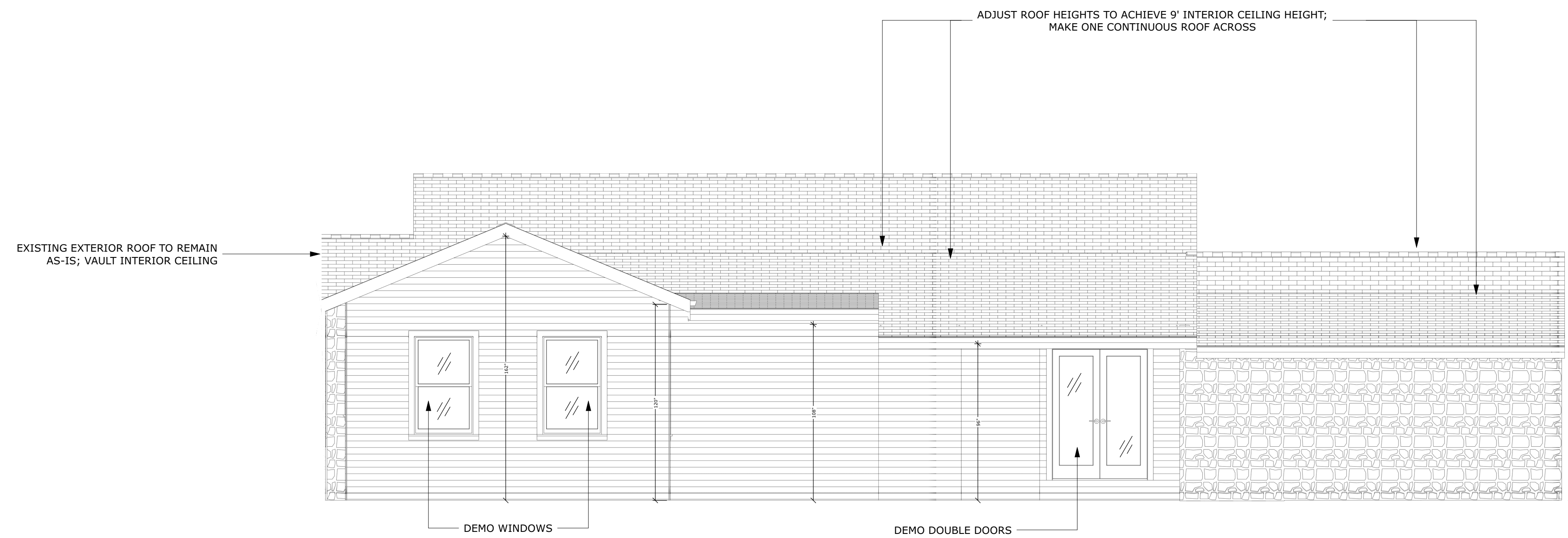
**REVISION DATES:**

**SHEET NUMBER**

**I1.4**



**18** EXISTING EXTERIOR ELEVATION - NORTH WALL  
Scale: 1/4" = 1'



**19** EXISTING EXTERIOR ELEVATION - SOUTH WALL  
Scale: 1/4" = 1'



SCAN FOR SELECTION SCHEDULE

**CLIENT APPROVAL**

INITIAL: \_\_\_\_\_

DATE: \_\_\_\_\_

INITIAL: \_\_\_\_\_

DATE: \_\_\_\_\_

**JACOB & STEPHANIE ABRAMI**  
145 THORAIN BLVD  
SAN ANTONIO, TX 78212

**EXTERIOR ELEVATIONS**

**JOB NO.:**

26-0039

**DESIGNER:**

KL

**DRAWN BY:**

KL

**REVIEWED BY:**

LC/EA

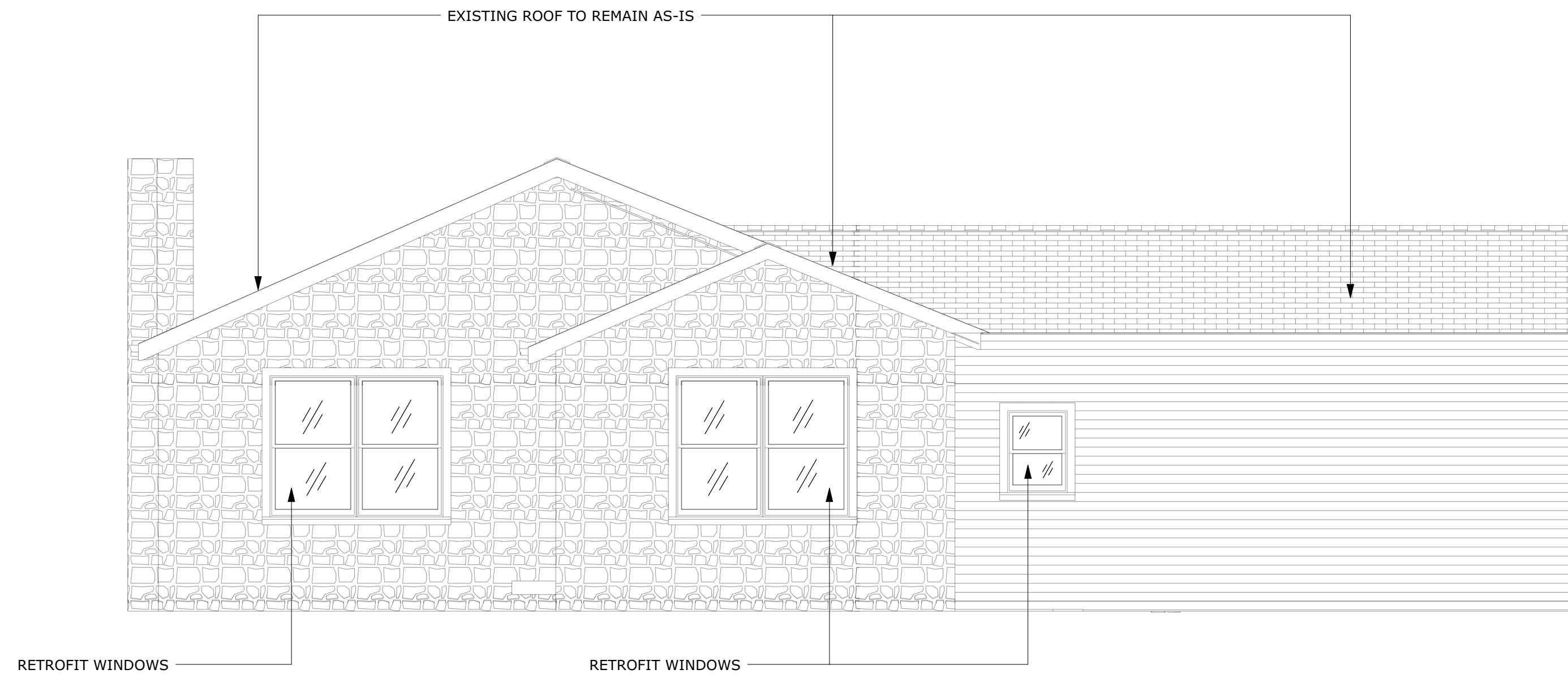
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06.18.26

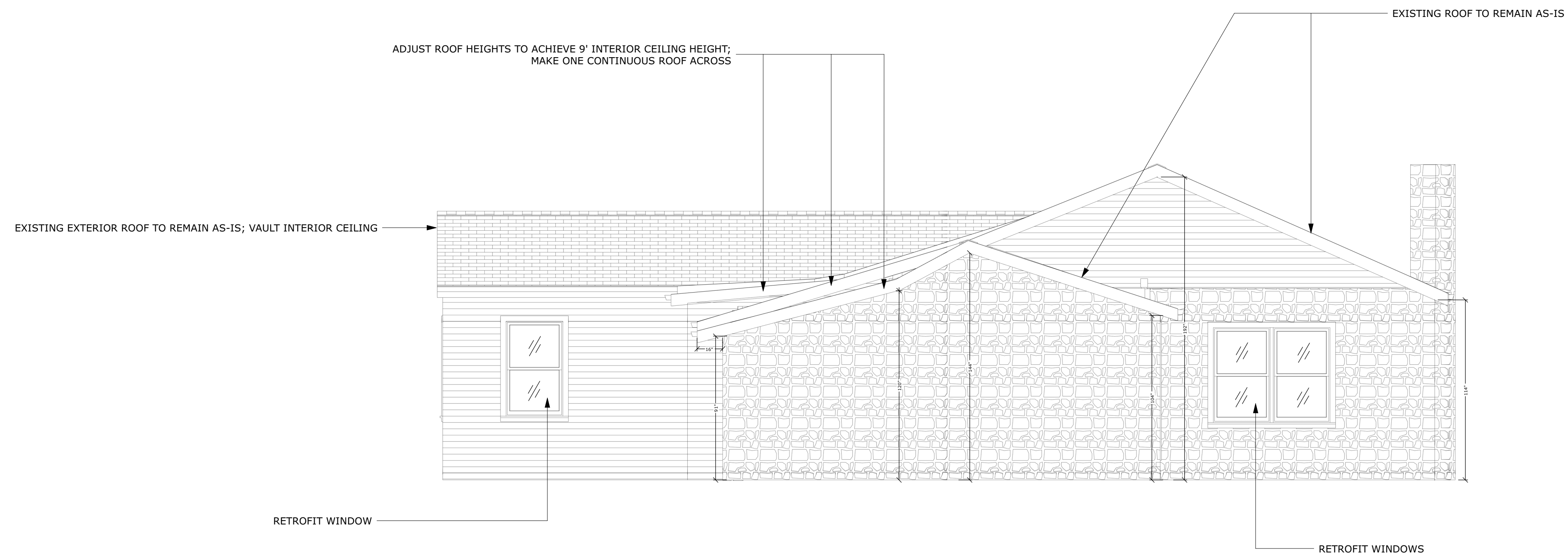
**REVISION DATES:**


**SHEET NUMBER**

**I1.5**



**20** EXISTING EXTERIOR ELEVATION - WEST WALL  
Scale: 1/4" = 1'



**21** EXISTING EXTERIOR ELEVATION - EAST WALL  
Scale: 1/4" = 1'



SCAN FOR SELECTION SCHEDULE

510 PORTLAND  
SAN ANTONIO, TX 78216  
210.826.7200

**CLIENT APPROVAL**

INITIAL: \_\_\_\_\_

DATE: \_\_\_\_\_

INITIAL: \_\_\_\_\_

DATE: \_\_\_\_\_

**JACOB & STEPHANIE ABRAMI**  
145 THORAIN BLVD  
SAN ANTONIO, TX 78212

**EXTERIOR ELEVATIONS**

**JOB NO.:**

26-0039

**DESIGNER:**

KL

**DRAWN BY:**

KL

**REVIEWED BY:**

LC/EA

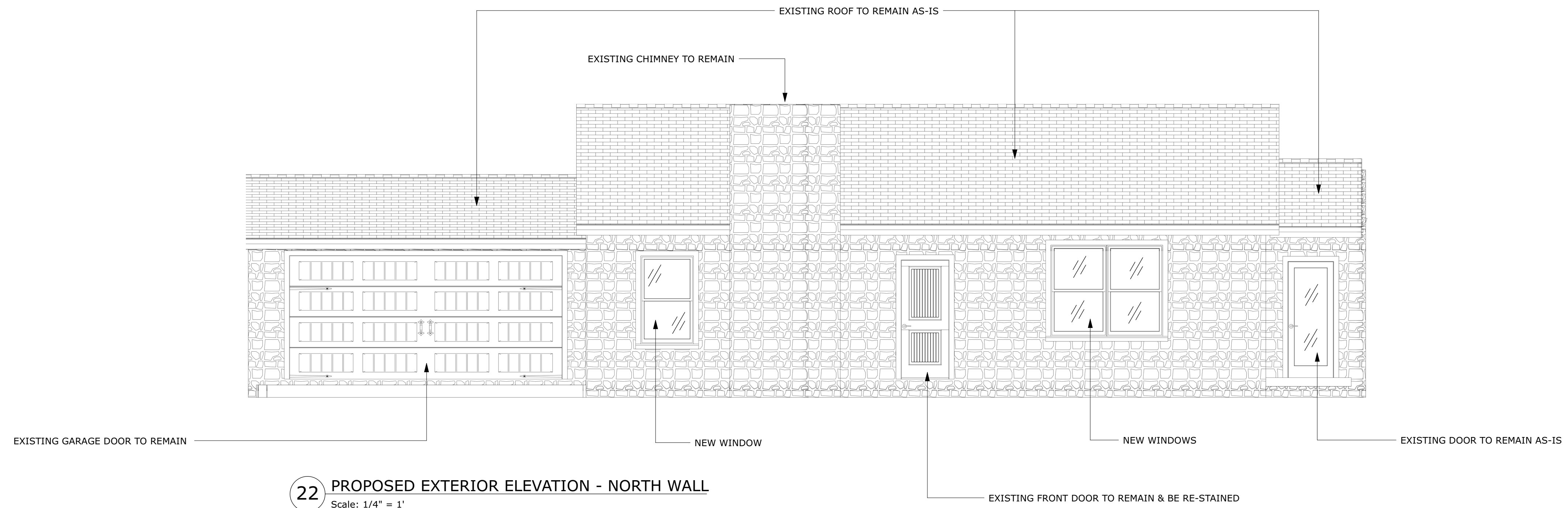
**ISSUE DATE:**

06.18.26

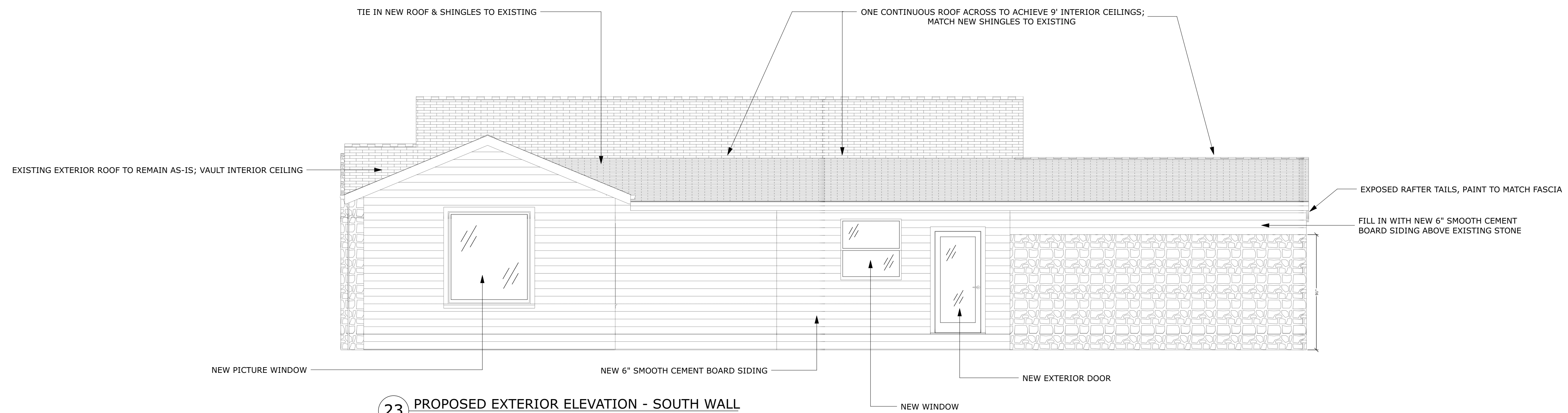
**REVISION DATES:**

**SHEET NUMBER**

**I1.6**



**22** PROPOSED EXTERIOR ELEVATION - NORTH WALL  
Scale: 1/4" = 1'



**23** PROPOSED EXTERIOR ELEVATION - SOUTH WALL  
Scale: 1/4" = 1'



SCAN FOR SELECTION SCHEDULE

**CLIENT APPROVAL**

INITIAL: \_\_\_\_\_

DATE: \_\_\_\_\_

INITIAL: \_\_\_\_\_

DATE: \_\_\_\_\_

**JACOB & STEPHANIE ABRAMI**  
145 THORAIN BLVD  
SAN ANTONIO, TX 78212

**EXTERIOR ELEVATIONS**

**JOB NO.:**

26-0039

**DESIGNER:**

KL

**DRAWN BY:**

KL

**REVIEWED BY:**

LC/EA

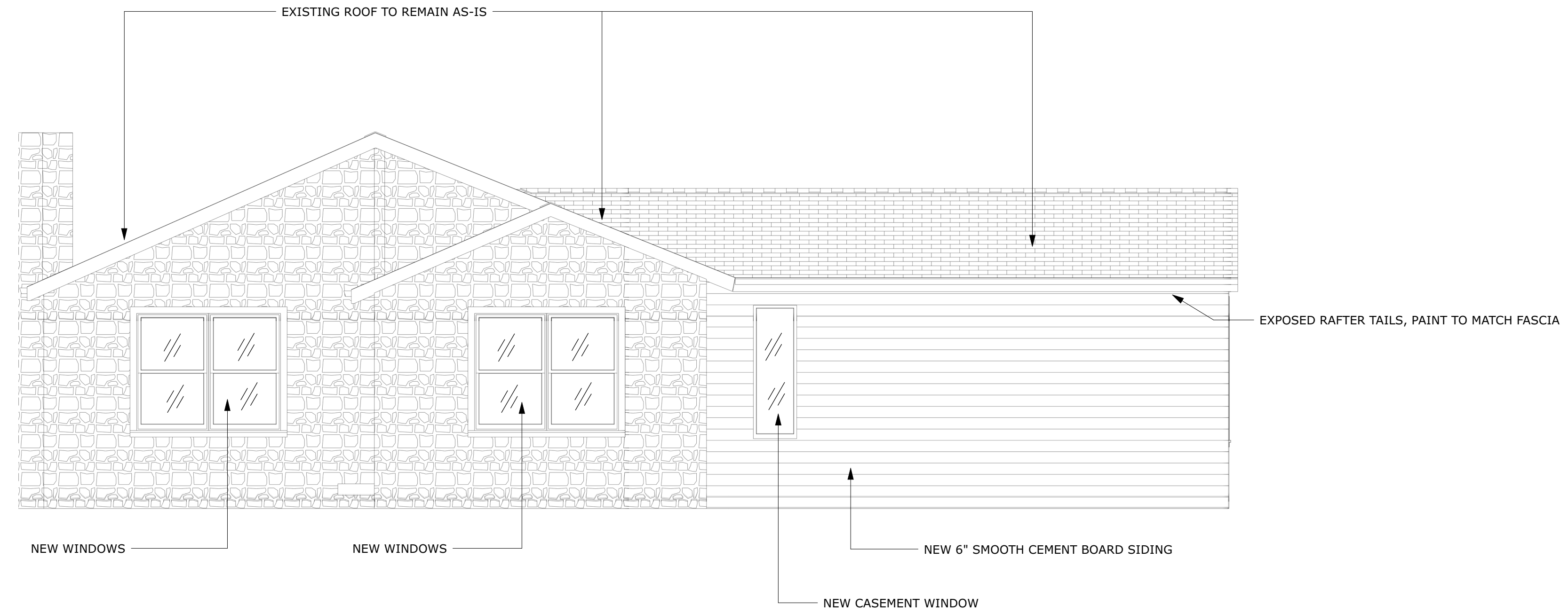
**ISSUE DATE:**

06.18.26

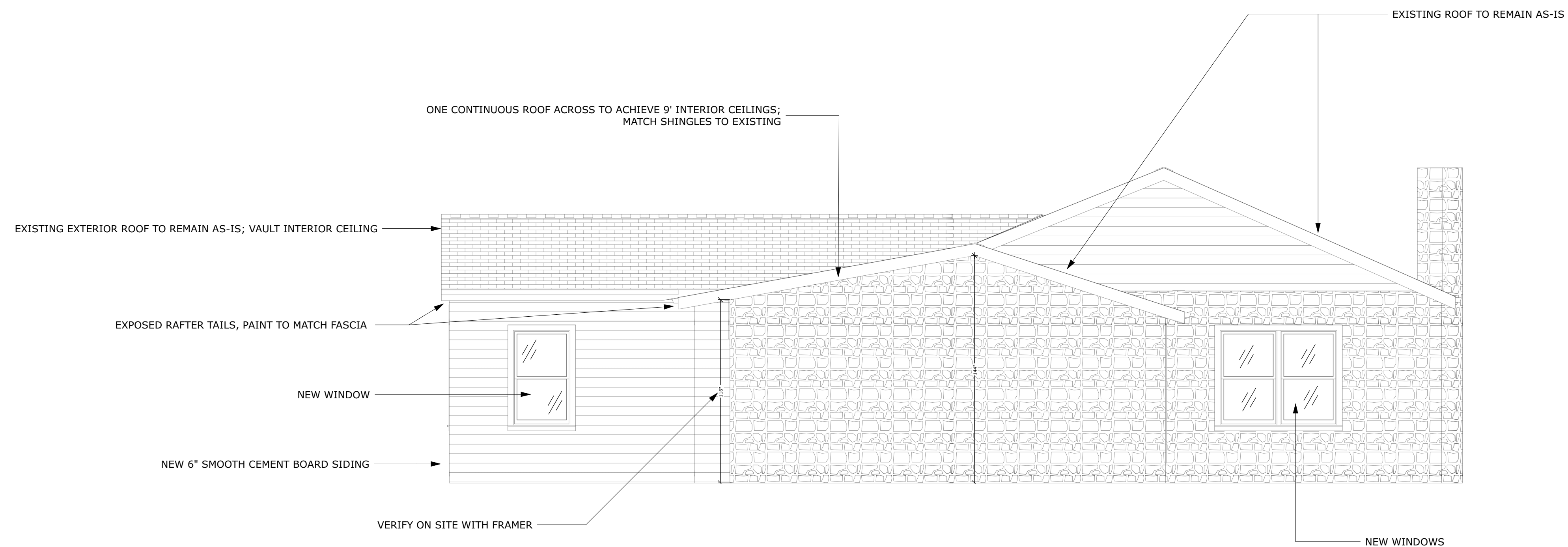
**REVISION DATES:**


**SHEET NUMBER**

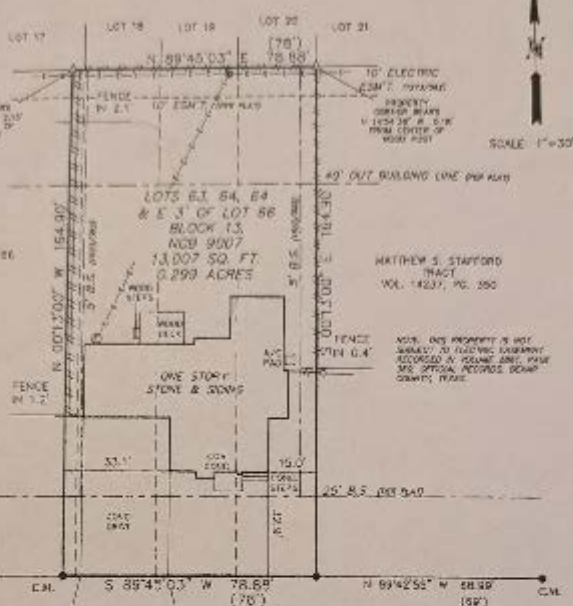
**I1.7**



**24 PROPOSED EXTERIOR ELEVATION - WEST WALL**  
Scale: 1/4" = 1'



**25 PROPOSED EXTERIOR ELEVATION - EAST WALL**  
Scale: 1/4" = 1'



**THORAIN BOULEVARD**  
(S.R.O.W.)

NOTE:  
ALL RIGHTS SHOWN HEREIN ARE ASSUMED.

NOTE:  
ASSUMED MEASUREMENTS IN 89°52'00" W 147.87' BEING THE  
INDICATED LINE FROM THE SW CORNER OF SUBJECT  
TRACT AND THE SE CORNER OF THE STAFFORD  
TRACT.

THE PROPERTY IS SUBJECT TO RESTRICTIVE COVENANTS, EASEMENTS, ADVERTISEMENTS,  
AND/OR SEVERAL LINES OF AND AS FOLLOWS: 1021M, 1021L, PAGE 238, VOLUME  
1009, PAGE 283, DEED RECORDS, BEXAR COUNTY, MISSOURI, PAGE 282, DEED AND PLAT  
RECORDS OF BEXAR COUNTY, MISSOURI.

THIS SURVEY IS  
UNRECORDED AND  
UNFILED

FOOD THE SURVEYOR HAS TO BE RESPONSIBLE OF ANY ERRORS OR OMISSIONS IN THIS SURVEY. THE ACCURACY OF THIS SURVEY IS BASED UPON THE INFORMATION PROVIDED BY THE CLIENT AND THE SURVEYOR HAS NO LIABILITY FOR ANY ERRORS OR OMISSIONS IN THIS SURVEY. THE SURVEYOR HAS NO LIABILITY FOR ANY ERRORS OR OMISSIONS IN THIS SURVEY. THE SURVEYOR HAS NO LIABILITY FOR ANY ERRORS OR OMISSIONS IN THIS SURVEY.



Property Address:  
145 THORAIN BOULEVARD  
Property Description:  
LOTS 63, 64, 65, AND THE EAST 3 FEET OF LOT 66,  
BLOCK 13, NEW CITY BLOCK 9007, CLAYCO PARK TERRACE,  
IN THE CITY OF SAN ANTONIO, BEXAR COUNTY, TEXAS,  
ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME  
964, PAGE 282, DEED AND PLAT RECORDS, BEXAR  
COUNTY, TEXAS.

OWNER:  
BRUCE CALLAHAN

Westar  
Alamo  
LAND SURVEYORS, LLC  
P.O. BOX 1000, SAN ANTONIO, TEXAS 78201  
TEL: 214-224-1000 FAX: 214-224-1001

LEGEND

- ▲ CANTONMENT
- THE 1/4" AND 3/8" MARKS
- 1/4" MARK APPROXIMATE
- 3/8" MARK APPROXIMATE
- △ CORNER MARK
- POINT MARK
- ELEVATION MARK
- SURFACE ELEVATION
- POOL MARK
- BENCH MARK

STATE OF TEXAS  
MARK J. EWALD  
5095  
SURVEYOR  
LAND SURVEYOR

I, MARK J. EWALD, Registered Professional  
Land Surveyor, State of Texas, do hereby  
certify that the above plat represents an  
accurate survey made by the ground under my  
supervision, and that the same are in accordance  
with the provisions of law and the Surveying  
Code, and that the same are in accordance with  
the provisions of the laws of the State of Texas,  
and that the same are in accordance with the  
laws of the State of Texas.

Mark J. Ewald

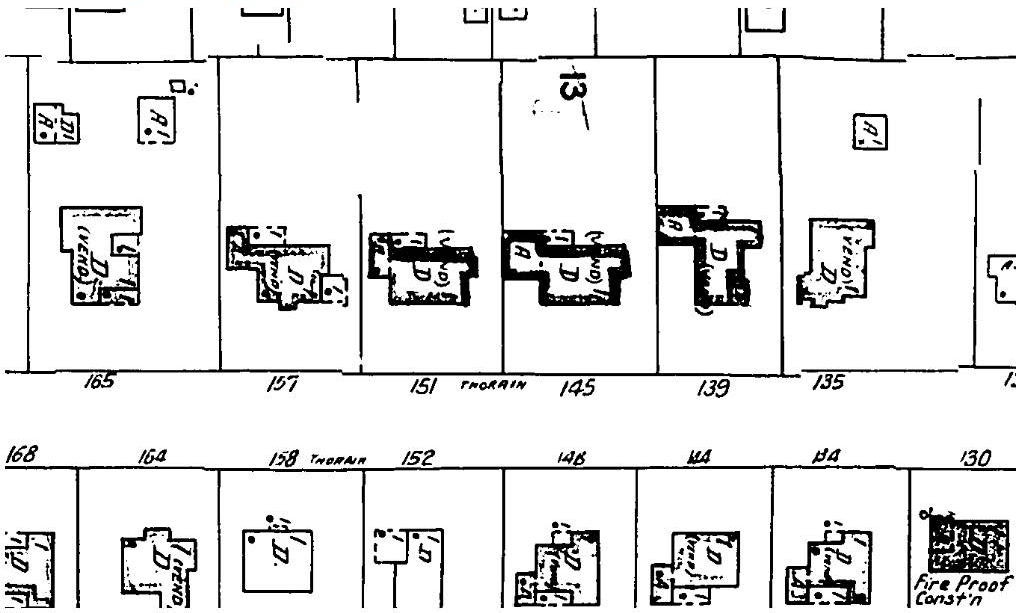
5/16/16  
 [Handwritten signature/initials]

State:

City:

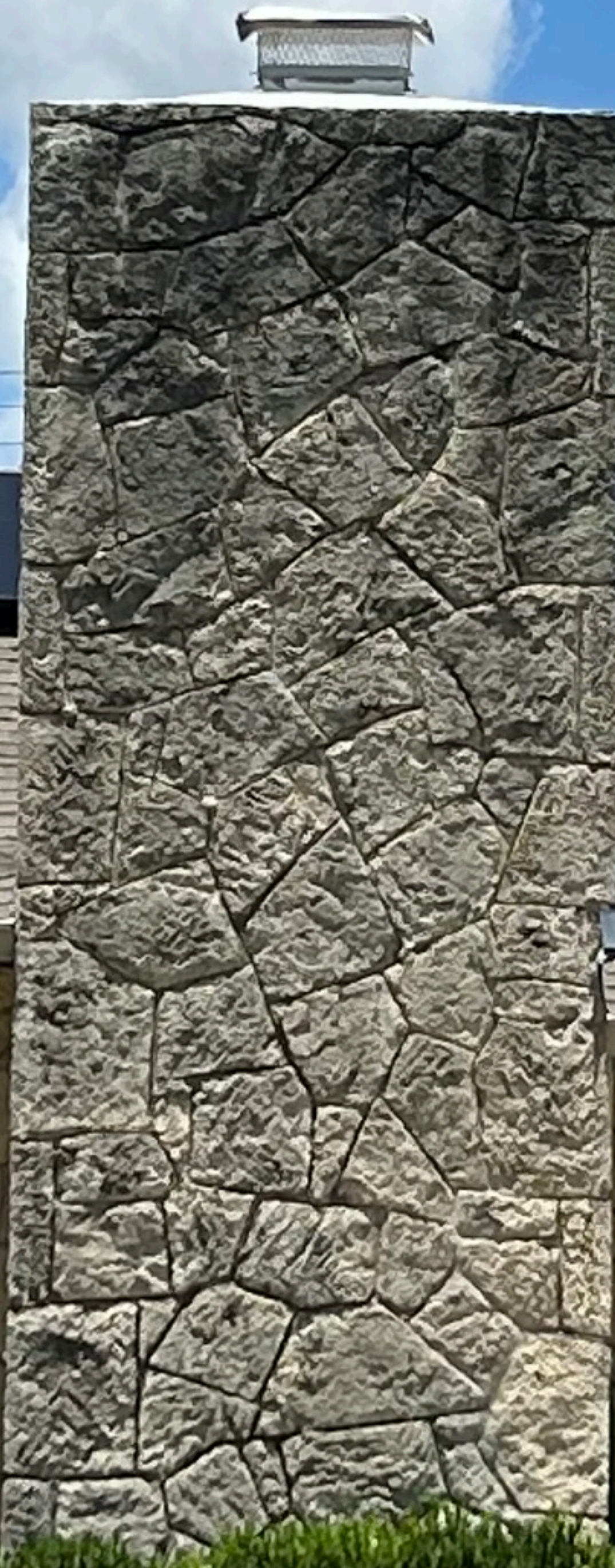
Date:

Volume:







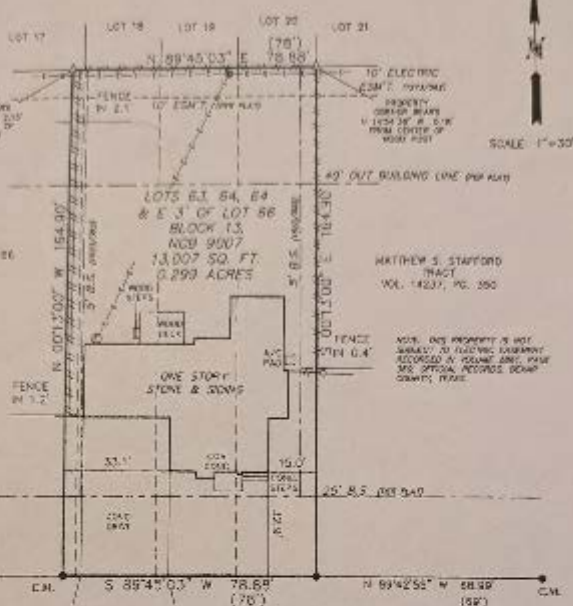












**THORAIN BOULEVARD**  
(S.R.O.W.)

NOTE:  
ALL RIGHTS SHOWN HEREIN ARE ASSUMED.

NOTE:  
ASSUMED MEASUREMENTS IN 89°52'00" W 147.87' BEING THE  
INDICATED LINE FROM THE SW CORNER OF SUBJECT  
TRACT AND THE SE CORNER OF THE STAFFORD  
TRACT.

THE PROPERTY IS SUBJECT TO RESTRICTIVE COVENANTS, EASEMENTS, ADVERTISEMENTS,  
AND/OR SEVERAL LINES OF AND AS FOLLOWS: 1021M, 1021L, PAGE 238, VOLUME  
1009, PAGE 283, DEED RECORDS, POLINE 988, PAGE 282, DEED AND PLAT  
RECORDS OF DEWAR COUNTY, TEXAS.

THIS SURVEY IS  
UNRECORDED AND  
UNFILED

FLOOD ZONE DESIGNATION: THIS IS THE RESPONSIBILITY OF ANY BENEVOLENT PROVIDER TO VERIFY THE ACCURACY OF FLOOD ZONE DESIGNATION OF THE PROPERTY WITH TEXAS AND STATE  
AND LOCAL OFFICIALS, AND TO OBTAIN THE CITY OF SAN ANTONIO'S SUBMITTAL AND FLOOD PLANNING DEPARTMENT'S REVIEW OF THE PROPERTY. THE PROPERTY OWNER'S OBLIGATION TO THE BENEVOLENT PROVIDER TO BE LIMITED TO A FLOOD ZONE DESIGNATION FROM THE CITY OF SAN ANTONIO, TEXAS, WHICH IS SUBJECT TO THE CITY OF SAN ANTONIO'S FLOOD ZONE DESIGNATION. BY OBTAINING THE CITY OF SAN ANTONIO'S FLOOD ZONE DESIGNATION, THE BENEVOLENT PROVIDER IS NOT GUARANTEEING THE ACCURACY OF THE FLOOD ZONE DESIGNATION. THE BENEVOLENT PROVIDER IS NOT GUARANTEEING THE ACCURACY OF THE FLOOD ZONE DESIGNATION. THE BENEVOLENT PROVIDER IS NOT GUARANTEEING THE ACCURACY OF THE FLOOD ZONE DESIGNATION. THE BENEVOLENT PROVIDER IS NOT GUARANTEEING THE ACCURACY OF THE FLOOD ZONE DESIGNATION.



Property Address:  
145 THORAIN BOULEVARD  
Property Description:  
LOTS 63, 64, 65, AND THE EAST 3 FEET OF LOT 66,  
BLOCK 13, NEW CITY BLOCK 9007, OLANGE PARK TERRACE,  
IN THE CITY OF SAN ANTONIO, DEWAR COUNTY, TEXAS,  
ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME  
988, PAGE 282, DEED, AND PLAT RECORDS, DEWAR  
COUNTY, TEXAS.

OWNER:  
BRUCE CALLAHAN

FOR AGENTS ONLY  
BY TITLE

**Westar Alamo**  
LAND SURVEYORS, LLC  
P.O. BOX 1000, NEWARK, TEXAS 78165  
TEL: 281-292-2000 FAX: 281-292-1881

**LEGEND**

- ▲ CANTONMENT
- THE 1/4" AND 3/8" MARKS
- 1/4" MARK APPROXIMATE
- 3/8" MARK APPROXIMATE
- △ CORNER MARK
- POINT MARK
- ELEVATION MARK
- SURFACE ELEVATION
- POOL MARK
- BENCH MARK

MARK J. ERWALD  
6093  
REGISTERED PROFESSIONAL  
LAND SURVEYOR  
STATE OF TEXAS

I, MARK J. ERWALD, Registered Professional Land Surveyor, State of Texas, do hereby certify that the above plat represents an actual survey made by the ground under my supervision, and that same are in accordance with the provisions of the laws of the State of Texas, and that the same are in accordance with the laws of the State of Texas, and that the same are in accordance with the laws of the State of Texas.

Mark J. Erwald

5/16/16  
 [Handwritten signature/initials]



# Contract - Detailed

Pella Window and Door Showroom of San Antonio  
 1926 Gulfmart Dr  
 San Antonio, TX 78217

**Sales Rep Name:** Ball, Thomas  
**Sales Rep Phone:** 210-374-4946  
**Sales Rep Fax:**  
**Sales Rep E-Mail:** Pball@pellasouthtexas.com

Customer Information		Project/Delivery Address		Order Information			
<b>Cross Design-Build Remodeling</b> 11818 Warfield St  SAN ANTONIO, TX 78216-3213 <b>Primary Phone:</b> (210) 8267200 <b>Mobile Phone:</b> <b>Fax Number:</b> <b>E-Mail:</b> <b>Contact Name:</b>  <b>Great Plains #:</b> 1001710149 <b>Customer Number:</b> 1006001333 <b>Customer Account:</b> 1001710149		<b>Abrami - Lifestyle</b> 11818 Warfield St  <b>Lot #</b> SAN ANTONIO, TX 78216-3213 <b>County:</b> <b>Owner Name:</b>  <b>Owner Phone:</b>		<b>Quote Name:</b> Abrami - Lifestyle - No Install - 5.21.2026  <b>Order Number:</b> 370 <b>Quote Number:</b> <b>20847222</b> <b>Order Type:</b> Non-Installed Sales <b>Wall Depth:</b> <b>Payment Terms:</b> Deposit/C.O.D. <b>Tax Code:</b> SATGROUPTX <b>Cust Delivery Date:</b> None <b>Quoted Date:</b> 5/18/2026 <b>Contracted Date:</b> <b>Booked Date:</b> <b>Customer PO #:</b>			
Accessories Managed / Delivery Date							
Door Handles	5/21/2026	Door Rolsscreens	5/21/2026	Hinge & Sliding Door Screens	5/21/2026	Window Screens	5/21/2026
Grilles	5/21/2026	Window Hardware	5/21/2026	Entry Door Panel	5/21/2026		

Customer Notes: Quoted:

Lifestyle Series Wood/Clad Windows

Exterior: Fossil Interior: Primed Hardware: Matte Black

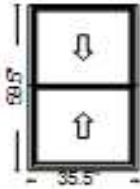
Jamb Depth: 9 6/19th

Line #	Location:	Attributes
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10 W01 - Living

**Lifestyle, Double Hung, 35.5 X 59.5, Without HGP, Fossil**

Qty  
3



PK #  
2238

Viewed From Exterior

1: 35.559.5 Double Hung, Equal  
 Frame Size: 35 1/2 X 59 1/2  
 Unit Type: No Program  
 General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16", Jambliner Color: Gray  
 Exterior Color / Finish: Standard Enduraclad, Fossil  
 Interior Color / Finish: Primed Interior  
 Glass: Insulated Low-E SunDefense™ Low-E Insulating Glass Argon Non High Altitude  
 Hardware Options: Cam-Action Lock, 2 Locks, Matte Black, No Limited Opening Hardware, Order Sash Lift, 2 Lifts, Shipped Separate, Accessory Managed, No Integrated Sensor  
 Screen: Full Screen, Fossil, InView™, Shipped Separate, Accessory Managed  
 Performance Information: U-Factor 0.29, SHGC 0.22, VLT 0.52, CPD PEL-N-35-00550-00001, Performance Class LC, PG 35, Calculated Positive DP Rating 35, Calculated Negative DP Rating 35, FPA FL12952, TDI FL12952, STC 27, OITC 23, Clear Opening Width 32.312, Clear Opening Height 26.5, Clear Opening Area 5.946306, Egress Meets minimum clear opening and 5.7 sq.ft  
 Grille: No Grille,  
 Wrapping Information: Foldout Fins, Factory Applied, No Exterior Trim, 4-9/16", 5 7/8", Standard Four Sided Jamb Extension, Factory Applied, Manufacturer Recommended Clearance, Perimeter Length = 190".

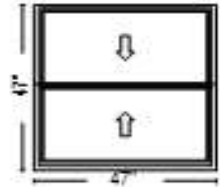
Rough Opening: 36 - 1/4" X 60 - 1/4"

Line #	Location:	Attributes
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16 W02 - Kitchen/Dining

**Lifestyle, Double Hung, 47 X 47, Without HGP, Fossil**

Qty  
1



PK #  
2238

Viewed From Exterior

1: Non-Standard Size Double Hung, Equal  
 Frame Size: 47 X 47  
 Unit Type: No Program  
 General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16", Jambliner Color: Gray  
 Exterior Color / Finish: Standard Enduraclad, Fossil  
 Interior Color / Finish: Primed Interior  
 Glass: Insulated Low-E SunDefense™ Low-E Insulating Glass Argon Non High Altitude  
 Hardware Options: Cam-Action Lock, 2 Locks, Matte Black, Limited Opening Hardware, Order Sash Lift, 2 Lifts, Shipped Separate, Accessory Managed, No Integrated Sensor  
 Screen: Full Screen, Fossil, InView™, Shipped Separate, Accessory Managed  
 Performance Information: U-Factor 0.29, SHGC 0.22, VLT 0.52, CPD PEL-N-35-00550-00001, Performance Class LC, PG 25, Calculated Positive DP Rating 25, Calculated Negative DP Rating 25, FPA FL12952, TDI FL12952, STC 27, OITC 23, Clear Opening Width 43.812, Clear Opening Height 20.25, Clear Opening Area 6.161063, Egress Does not meet typical United States egress, but may comply with local code requirements  
 Grille: No Grille,  
 Wrapping Information: Foldout Fins, Factory Applied, No Exterior Trim, 4-9/16", 5 7/8", Standard Four Sided Jamb Extension, Factory Applied, Manufacturer Recommended Clearance, Perimeter Length = 188".

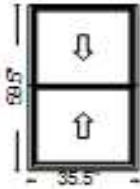
Rough Opening: 47 - 3/4" X 47 - 3/4"

Line #	Location:	Attributes	Qty
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20 W03 - Primary Bed

**Lifestyle, Double Hung, 35.5 X 59.5, Without HGP, Fossil**

Qty  
1



PK #  
2238

Viewed From Exterior

1: 35.559.5 Double Hung, Equal  
 Frame Size: 35 1/2 X 59 1/2  
 Unit Type: No Program  
 General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16", Jambliner Color: Gray  
 Exterior Color / Finish: Standard Enduraclad, Fossil  
 Interior Color / Finish: Primed Interior  
 Glass: Insulated Low-E SunDefense™ Low-E Insulating Glass Argon Non High Altitude  
 Hardware Options: Cam-Action Lock, 2 Locks, Matte Black, No Limited Opening Hardware, Order Sash Lift, 2 Lifts, Shipped Separate, Accessory Managed, No Integrated Sensor  
 Screen: Full Screen, Fossil, InView™, Shipped Separate, Accessory Managed  
 Performance Information: U-Factor 0.29, SHGC 0.22, VLT 0.52, CPD PEL-N-35-00550-00001, Performance Class LC, PG 35, Calculated Positive DP Rating 35, Calculated Negative DP Rating 35, FPA FL12952, TDI FL12952, STC 27, OITC 23, Clear Opening Width 32.312, Clear Opening Height 26.5, Clear Opening Area 5.946306, Egress Meets minimum clear opening and 5.7 sq.ft  
 Grille: No Grille,  
 Wrapping Information: Foldout Fins, Factory Applied, No Exterior Trim, 4-9/16", 5 7/8", Standard Four Sided Jamb Extension, Factory Applied, Manufacturer Recommended Clearance, Perimeter Length = 190".

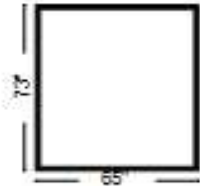
Rough Opening: 36 - 1/4" X 60 - 1/4"

Line #	Location:	Attributes	Qty
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25 W04 - Primary Bed

**Lifestyle, Direct Set, Fixed Frame, 65 X 73, Without HGP, Fossil**

Qty  
1



PK #  
2238

Viewed From Exterior

1: 6573 Fixed Frame Direct Set  
 Frame Size: 65 X 73  
 Unit Type: No Program  
 General Information: No Package, Without Hinged Glass Panel, Interior Glazed, Standard, Clad, Pine, 5", 3 11/16"  
 Exterior Color / Finish: Standard Enduraclad, Fossil  
 Interior Color / Finish: Primed Interior  
 Glass: Insulated Dual Low-E SunDefense™ Low-E Insulating Glass Argon Non High Altitude  
 Performance Information: U-Factor 0.27, SHGC 0.24, VLT 0.56, CPD PEL-N-18-04408-00001, Performance Class AW, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, FPA FL10354, TDI FL10354, STC 28, OITC 24  
 Grille: No Grille,  
 Wrapping Information: Foldout Fins, Factory Applied, No Exterior Trim, 4-9/16", 5 7/8", Standard Four Sided Jamb Extension, Factory Applied, Manufacturer Recommended Clearance, Perimeter Length = 276".

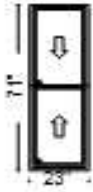
Rough Opening: 65 - 3/4" X 73 - 3/4"

Line #	Location:	Attributes	Qty
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30 W05 - Primary Bath

**Lifestyle, Double Hung, 23 X 71, Without HGP, Fossil**

Qty  
1



PK #  
2238

Viewed From Exterior

1: 2371 Double Hung, Equal  
 Frame Size: 23 X 71  
 Unit Type: No Program  
 General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16", Jambliner Color: Gray  
 Exterior Color / Finish: Standard Enduraclad, Fossil  
 Interior Color / Finish: Primed Interior  
 Glass: Insulated Tempered Obscure Low-E Frosted SunDefense™ Low-E Insulating Glass Argon Non High Altitude  
 Hardware Options: Cam-Action Lock, 1 Lock, Matte Black, No Limited Opening Hardware, Order Sash Lift, 1 Lift, Shipped Separate, Accessory Managed, No Integrated Sensor  
 Screen: Full Screen, Fossil, InView™, Shipped Separate, Accessory Managed  
 Performance Information: U-Factor 0.29, SHGC 0.22, VLT 0.52, CPD PEL-N-35-00553-00001, Performance Class LC, PG 30, Calculated Positive DP Rating 30, Calculated Negative DP Rating 30, FPA FL12952, TDI FL12952, STC 27, OITC 23, Clear Opening Width 19.812, Clear Opening Height 32.25, Clear Opening Area 4.437063, Egress Does not meet typical United States egress, but may comply with local code requirements  
 Grille: No Grille,  
 Wrapping Information: Foldout Fins, Factory Applied, No Exterior Trim, 4-9/16", 5 7/8", Standard Four Sided Jamb Extension, Factory Applied, Manufacturer Recommended Clearance, Perimeter Length = 188".  
 Obscure Glass Style: Frosted

Rough Opening: 23 - 3/4" X 71 - 3/4"

Line #	Location:	Attributes	Qty
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35 W06 - Library

**Lifestyle, Direct Set, Fixed Frame, 30 X 71, Without HGP, Fossil**

Qty  
1



PK #  
2238

Viewed From Exterior

1: 3071 Fixed Frame Direct Set  
 Frame Size: 30 X 71  
 Unit Type: No Program  
 General Information: No Package, Without Hinged Glass Panel, Interior Glazed, Standard, Clad, Pine, 5", 3 11/16"  
 Exterior Color / Finish: Standard Enduraclad, Fossil  
 Interior Color / Finish: Primed Interior  
 Glass: Insulated Dual Low-E SunDefense™ Low-E Insulating Glass Argon Non High Altitude  
 Performance Information: U-Factor 0.28, SHGC 0.24, VLT 0.57, CPD PEL-N-18-04376-00001, Performance Class AW, PG 45, Calculated Positive DP Rating 45, Calculated Negative DP Rating 45, FPA FL10354, TDI FL10354, STC 27, OITC 22  
 Grille: No Grille,  
 Wrapping Information: Foldout Fins, Factory Applied, No Exterior Trim, 4-9/16", 5 7/8", Standard Four Sided Jamb Extension, Factory Applied, Manufacturer Recommended Clearance, Perimeter Length = 202".

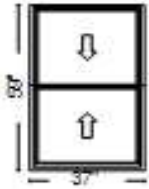
Rough Opening: 30 - 3/4" X 71 - 3/4"

Line #	Location:	Attributes
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40 W07 - Library

**Lifestyle, Double Hung, 37 X 59, Without HGP, Fossil**

Qty  
2



PK #  
2238

Viewed From Exterior

1: 3759 Double Hung, Equal  
 Frame Size: 37 X 59  
 Unit Type: No Program  
 General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16", Jambliner Color: Gray  
 Exterior Color / Finish: Standard Enduraclad, Fossil  
 Interior Color / Finish: Primed Interior  
 Glass: Insulated Low-E SunDefense™ Low-E Insulating Glass Argon Non High Altitude  
 Hardware Options: Cam-Action Lock, 2 Locks, Matte Black, No Limited Opening Hardware, Order Sash Lift, 2 Lifts, Shipped Separate, Accessory Managed, No Integrated Sensor  
 Screen: Full Screen, Fossil, InView™, Shipped Separate, Accessory Managed  
 Performance Information: U-Factor 0.29, SHGC 0.22, VLT 0.52, CPD PEL-N-35-00550-00001, Performance Class LC, PG 35, Calculated Positive DP Rating 35, Calculated Negative DP Rating 35, FPA FL12952, TDI FL12952, STC 27, OITC 23, Clear Opening Width 33.812, Clear Opening Height 26.25, Clear Opening Area 6.163646, Egress Meets minimum clear opening and 5.7 sq.ft  
 Grille: No Grille,  
 Wrapping Information: Foldout Fins, Factory Applied, No Exterior Trim, 4-9/16", 5 7/8", Standard Four Sided Jamb Extension, Factory Applied, Manufacturer Recommended Clearance, Perimeter Length = 192".

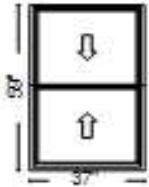
Rough Opening: 37 - 3/4" X 59 - 3/4"

Line #	Location:	Attributes
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45 W08 - Bedroom 1

**Lifestyle, Double Hung, 37 X 59, Without HGP, Fossil**

Qty  
4



PK #  
2238

Viewed From Exterior

1: 3759 Double Hung, Equal  
 Frame Size: 37 X 59  
 Unit Type: No Program  
 General Information: No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16", Jambliner Color: Gray  
 Exterior Color / Finish: Standard Enduraclad, Fossil  
 Interior Color / Finish: Primed Interior  
 Glass: Insulated Low-E SunDefense™ Low-E Insulating Glass Argon Non High Altitude  
 Hardware Options: Cam-Action Lock, 2 Locks, Matte Black, No Limited Opening Hardware, Order Sash Lift, 2 Lifts, Shipped Separate, Accessory Managed, No Integrated Sensor  
 Screen: Full Screen, Fossil, InView™, Shipped Separate, Accessory Managed  
 Performance Information: U-Factor 0.29, SHGC 0.22, VLT 0.52, CPD PEL-N-35-00550-00001, Performance Class LC, PG 35, Calculated Positive DP Rating 35, Calculated Negative DP Rating 35, FPA FL12952, TDI FL12952, STC 27, OITC 23, Clear Opening Width 33.812, Clear Opening Height 26.25, Clear Opening Area 6.163646, Egress Meets minimum clear opening and 5.7 sq.ft  
 Grille: No Grille,  
 Wrapping Information: Foldout Fins, Factory Applied, No Exterior Trim, 4-9/16", 5 7/8", Standard Four Sided Jamb Extension, Factory Applied, Manufacturer Recommended Clearance, Perimeter Length = 192".

Rough Opening: 37 - 3/4" X 59 - 3/4"

Line #	Location:	Attributes	Qty
50	<b>D Tier 2 - Delivery Tier 2</b>		1

## Thank You For Purchasing Pella® Products

### PELLA WARRANTY:

Pella products are covered by Pella's limited warranties in effect at the time of sale. All applicable product warranties are incorporated into and become a part of this contract. Please see the warranties for complete details, taking special note of the two important notice sections regarding installation of Pella products and proper management of moisture within the wall system. Neither Pella Corporation nor the Seller will be bound by any other warranty unless specifically set out in this contract. However, Pella Corporation will not be liable for branch warranties which create obligations in addition to or obligations which are inconsistent with Pella written warranties.

Clear opening (egress) information does not take into consideration the addition of a Rolscreen [or any other accessory] to the product. You should consult your local building code to ensure your Pella products meet local egress requirements.

Per the manufacturer's limited warranty, unfinished mahogany exterior windows and doors must be finished upon receipt prior to installing and refinished annually, thereafter. Variations in wood grain, color, texture or natural characteristics are not covered under the limited warranty.

**INSYNCTIVE PRODUCTS:** In addition, Pella Insynctive Products are covered by the Pella Insynctive Products Software License Agreement and Pella Insynctive Products Privacy Policy in effect at the time of sale, which can be found at [Insynctive.pella.com](https://www.pella.com). By installing or using Your Insynctive Products you are acknowledging the Insynctive Software Agreement and Privacy Policy are part of the terms of sale.

Notice of Collection of Personal Information: We may collect your personal information when you interact with us. Under the California Consumer Privacy Act (CCPA), California residents have specific rights to request this information, request to delete this information, and opt out of the sharing or sale of this information to third parties. To learn more about our collection practices and your rights under the CCPA please visit our link <https://www.pella.com/california-rights-policy/> at [pella.com](https://www.pella.com).

### ARBITRATION AND CLASS ACTION WAIVER ("ARBITRATION AGREEMENT")

YOU and Pella and its subsidiaries and the Pella Branded Distributor AGREE TO ARBITRATE DISPUTES ARISING OUT OF OR RELATING TO YOUR PELLA PRODUCTS (INCLUDES PELLA GOODS AND PELLA SERVICES) AND WAIVE THE RIGHT TO HAVE A COURT OR JURY DECIDE DISPUTES. YOU WAIVE ALL RIGHTS TO PROCEED AS A MEMBER OR REPRESENTATIVE OF A CLASS ACTION, INCLUDING CLASS ARBITRATION, REGARDING DISPUTES ARISING OUT OF OR RELATING TO YOUR PELLA PRODUCTS. You may opt out of this Arbitration Agreement by providing notice to Pella no later than ninety (90) calendar days from the date You purchased or otherwise took ownership of Your Pella Goods. To opt out, You must send notice by e-mail to [pellawebsupport@pella.com](mailto:pellawebsupport@pella.com), with the subject line: "Arbitration Opt Out" or by calling (877) 473-5527. Opting out of the Arbitration Agreement will not affect the coverage provided by any applicable limited warranty pertaining to Your Pella Products. For complete information, including the full terms and conditions of this Arbitration Agreement, which are incorporated herein by reference, please visit [www.pella.com/arbitration](http://www.pella.com/arbitration) or e-mail to [pellawebsupport@pella.com](mailto:pellawebsupport@pella.com), with the subject line: "Arbitration Details" or call (877) 473-5527. D'ARBITRAGE ET RENONCIATION AU RECOURS COLLECTIF ("convention d'arbitrage") EN FRANÇAIS SEE [PELLA.COM/ARBITRATION](http://PELLA.COM/ARBITRATION). DE ARBITRAJE Y RENUNCIA COLECTIVA ("acuerdo de arbitraje") EN ESPAÑOL VER [PELLA.COM/ARBITRATION](http://PELLA.COM/ARBITRATION).

Seller shall not be held liable for failure or delay in the performance of its obligations under this Agreement, if such performance is hindered or delayed by the occurrence of an act or event beyond the Seller's reasonable control (force majeure event), including but not limited to earthquakes, unusually severe weather and other Acts of God, fire, strikes and labor unrest, epidemics, riots, war, civil unrest, and government interventions. Seller shall give timely notice of a force majeure event and take such reasonable action to mitigate the impacts of such an event.

### Product Performance Information:

U-Factor, Solar Heat Gain Coefficient (SHGC), and Visible Light Transmittance (VLT) are certified by the National Fenestration Rating Council (NFRC).

For more information regarding the finishing, maintenance, service and warranty of all Pella® products, visit the Pella® website at [www.pella.com](http://www.pella.com)

Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. NFRC does not recommend any products and does not warrant the suitability of any product for any specific use.

Design Pressure (DP), Performance Class, and Performance Grade (PG) are certified by a third party organization, in many cases the Window and Door Manufacturers Association (WDMA). The certification requires the performance of at least one product of the product line to be tested in accordance with the applicable performance standards and verified by an independent party. The certification indicates that the product(s) of the product line passed the applicable tests. The certification does not apply to mulled and/or product combinations unless noted. Actual product results will vary and change over the products life.

For more performance information along with information on Florida Product Approval System (FPAS) Number and Texas Dept. of Insurance (TDI) number go to [www.pella.com/performance](http://www.pella.com/performance).

Including during the construction period, casement windows should never be left open and unlocked for prolong periods or during high wind conditions to avoid sash detachment/damage.

Actual sizes tested for documented STC and OITC ratings may vary from the ASTM E 1425 sizes to better represent Pella product offering.

STC and OITC ratings shown may be conservatively based on products tested with thinner panes of glass.

STC and OITC ratings may be from test results from an equivalent product.

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## Terms & Conditions

### All Orders

This quote may be subject to repricing if the quote is more than 30 days old or if there has been a price increase. Pella South Texas will make every effort to make customers aware of price increases with as much lead time as we are able to.

I am aware that the products sold by Pella South Texas are made to order and my order is made specifically for my home / project, including aesthetics and sizing. I understand that there will be no changes allowed on this order after products are ordered, and orders cannot be cancelled or returned. I have reviewed each line on the contract with the sales representative and clearly understand the hinging, venting, count of openings, grilles, sizing, and color are correct, with all products being viewed from the exterior.

To activate order, please sign and return this copy. All orders are subject to acceptance by Pella South Texas.

Pella South Texas makes no guarantees as to lead times and is not responsible for any delays, including those from manufacturers. Any lead time or delivery date discussions during the sales process are estimates based on the best information available at the time and should only be used as such. No discounts will be given for delays, including manufacturing.

I hereby authorize Pella Corporation, its affiliates and/or subsidiaries to use, reproduce, and/or publish photographs and/or video that may pertain to me and my project, including materials described below, without compensation. I understand that this material may be used in various communications (e.g. website, e-newsletters, promotional materials, etc.). Consequently, these entities may publish materials, photographs, and/or refer to the project in a manner that they deem appropriate. No personal information (customer name, specific project location) will be disclosed without additional permissions being granted by the customer.

### Installed Orders (New Full Units)

For replacement projects, Pella South Texas makes no guarantees that existing window and door treatments and accessories (such as blinds, shutters, shades, storm doors, storm windows, etc.) will fit with your new Pella windows and doors.

For replacement projects, Pella South Texas makes no guarantees that existing interior (e.g. drywall, paint, wallpaper, etc.) or exterior materials (e.g. siding, stucco, EIFS, brick, etc.) will be undamaged during the installation process. While great care will be taken with our customers' homes, there are times where existing materials will not allow a window or door to be removed and reinstalled without additional work being required by the homeowner subsequent to installation.

### Payment Terms:

Unless financing through Pella South Texas offered financing programs, payment of 50% is required prior to ordering any products

(unless payment terms have been previously given)

The balance is due upon substantial completion. Substantial completion is achieved when each item has been installed and is operational. Partial invoices may occur. Items such as missing or broken parts and service adjustments are covered by warranty and do not affect the status of your project from being substantially complete.

Partial installations will be due for that part of the project upon substantial completion of that partial install.

The final payment must be Paid in Full on the last day of Substantial Completion. In the event that any part of your order was ordered incorrectly, has damage, or is incomplete, you may temporarily withhold the following from your final payment:

For items not able to be installed or needing a full unit reorder, the price due for that item, including installation cost, will not be due.

For items substantially complete but needing parts under warranty, you may withhold:

\$700 for damaged or broken sash/glass

\$300 for missing or damaged screen, hardware or similar product

Full payment is expected at the time missing or damaged units are installed or replaced.

Late payments beyond the Payment Terms defined above will be charged 1.5% of the outstanding balance per month. If Pella South Texas is required to employ an attorney to collect the amounts owed to it by Customer, Pella South Texas will be entitled to collect all attorney's fees, costs, and expenses it incurs.

### **Non-Installed Orders (New Full Units)**

Pella South Texas makes no guarantees that existing window and door treatments and accessories (such as blinds, shutters, shades, storm doors, storm windows, etc.) will fit with your new Pella windows and doors.

For all orders not installed through Pella South Texas, sizing is the responsibility of the customer. Any measuring done by Pella South Texas is a courtesy and for quoting purposes only.

Remaining account balance must be Paid in Full at delivery, unless credit terms have been extended by Pella South Texas.

Purchaser agrees to take receipt of all materials within 30 days of either original requested need by date or actual date of the entire order's arrival at Pella South Texas' warehouse, whichever is later. After 30 days, the remaining account balance is Due in Full. After 90

days, storage fees of 1.5% of the contracted price will be assessed per month. All storage fees are required to be Paid in Full prior to product delivery. Screens and hardware are exceptions and may be stored up to 24 months without penalty. If screens and hardware are not requested within 24 months after final product delivery, they are subject to disposal and would need to be repurchased and reordered when needed.

Call a minimum of five days in advance to schedule delivery. Customer is expected to supply help to unload unless a 2-man delivery is on the contract.

Any product damage must be reported to Pella South Texas within 48 hours of product receipt.

Late payments beyond the Payment Terms defined above will be charged 1.5% of the outstanding balance per month. If Pella South Texas is required to employ an attorney to collect the amounts owed to it by Customer, Pella South Texas will be entitled to collect all attorney's fees, costs, and expenses it incurs.

### **Service Orders**

All non-warranty Service quotes must be paid for in full, including tax, prior to ordering. Service parts may not be returned or refunded.

Customer Name (Please print)

Pella Sales Rep Name (Please print)

Customer Signature

Pella Sales Rep Signature

Date

Date

Credit Card Approval Signature



























Safe/Maximizing  
dufy





Product Selection Guide

Size and Performance Data .....LS-DH-2

Features and Options .....LS-DH-3

Combination Assemblies ..... LS-DH-4

Glazing Performance

    Vent Units..... LS-DH-6

    Fixed Units ..... LS-DH-8

Grille Types .....LS-DH-11

Size Tables

    Double-Hung with GBG's and SDL's..... LS-DH-12

    Fixed and Transoms with GBG's and SDL's..... LS-DH-13

    Replacement Sizes with Grilles-Between-the-Glass .....LS-DH-14

Special Sizes and Dimensions..... LS-DH-17

Design Data

    Vent Units.....LS-DH-18

    Fixed and Transoms .....LS-DH-19

    Replacement Double-Hung Venting .....LS-DH-20

    Replacement Fixed and Transoms ..... LS-DH-22

Detailed Product Description ..... LS-DH-23

Unit Sections .....LS-DH-24

**Document Navigation Tips:**

Items listed in the table of contents above are active links that will take you to the corresponding page.

**Supporting documents for this product:**

Test Reports:

[https://media.pella.com/professional/adm/CertificationReports/Test\\_Reports\\_LS-Dual.pdf?utm\\_source=pdfdoc](https://media.pella.com/professional/adm/CertificationReports/Test_Reports_LS-Dual.pdf?utm_source=pdfdoc)

CSI Specs (readable using Microsoft Word or other text editing application):

[https://media.pella.com/professional/adm/Wood-CSI\\_Specs/08552.rtf?utm\\_source=pdfdoc](https://media.pella.com/professional/adm/Wood-CSI_Specs/08552.rtf?utm_source=pdfdoc)

Detailed Product Description (readable using Microsoft Word or other text editing application):

[https://media.pella.com/professional/adm/Clad-Wood-LS/PellaLifestyleSrs-DH\\_DPD.rtf?utm\\_source=pdfdoc](https://media.pella.com/professional/adm/Clad-Wood-LS/PellaLifestyleSrs-DH_DPD.rtf?utm_source=pdfdoc)

Size Tables (requires appropriate CAD software to read and use):

[https://media.pella.com/professional/adm/Clad-Wood-LS/LSCDHE\\_D.dwg?utm\\_source=pdfdoc](https://media.pella.com/professional/adm/Clad-Wood-LS/LSCDHE_D.dwg?utm_source=pdfdoc)

CAD cross sections (requires appropriate CAD software to read and use):

[https://media.pella.com/professional/adm/Clad-Wood-LS/LS-DH\\_XSEC\\_D.dwg?utm\\_source=pdfdoc](https://media.pella.com/professional/adm/Clad-Wood-LS/LS-DH_XSEC_D.dwg?utm_source=pdfdoc)

3D & BIM (requires appropriate software to read and use):

[https://media.pella.com/professional/adm/RevitFiles/LS-Revit/Window-Double-Hung-Pella-Lifestyle\\_Series.zip?utm\\_source=pdfdoc](https://media.pella.com/professional/adm/RevitFiles/LS-Revit/Window-Double-Hung-Pella-Lifestyle_Series.zip?utm_source=pdfdoc)

Sketchup (requires appropriate software to read and use):

[https://media.pella.com/professional/adm/Clad-Wood-LS/PellaSKP\\_LifestyleSeries\\_Double-Hung.zip?utm\\_source=pdfdoc](https://media.pella.com/professional/adm/Clad-Wood-LS/PellaSKP_LifestyleSeries_Double-Hung.zip?utm_source=pdfdoc)

Combination Recommendations:

[https://media.pella.com/professional/adm/Clad-Wood/D\\_Combinations.pdf?utm\\_source=pdfdoc](https://media.pella.com/professional/adm/Clad-Wood/D_Combinations.pdf?utm_source=pdfdoc)

Installation Details:

[https://media.pella.com/professional/adm/Clad-Wood/F\\_InstallationDetails.pdf?utm\\_source=pdfdoc](https://media.pella.com/professional/adm/Clad-Wood/F_InstallationDetails.pdf?utm_source=pdfdoc)

Bay/Bow Details:

[https://media.pella.com/professional/adm/Clad-Wood/Pella-Wood\\_BayBowWindows.pdf](https://media.pella.com/professional/adm/Clad-Wood/Pella-Wood_BayBowWindows.pdf)

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# Lifestyle Series Double-Hung

## Size and Performance Data

	Dual-Pane
<b>Sizes</b>	
Standard double-hung vent/fixed sizes	●
Transom sizes	●
Egress sizes	●
Special sizes available	●
<b>Performance<sup>1</sup></b>	
Meets or Exceeds AAMA / WDMA Ratings	H-LC25-LC50 Hallmark Certified
Air Infiltration (cfm/ft <sup>2</sup> of frame @ 1.57 psf wind pressure) <sup>2</sup>	0.11
Water Resistance	7.5 psf
Design Pressure	25–50 psf
<b>Other Performance Criteria</b>	
Forced Entry Resistance Level (Minimum Security Grade) <sup>3</sup>	10
Operating Force (lb) Initiate Motion / Maintain Motion (of Hallmark tested size and glazing) <sup>4</sup>	40/40

### Sound Transmission Class / Outdoor-Indoor Transmission Class

Product	Frame Size Tested <sup>5</sup>	Glazing System				STC Rating	OITC Rating
		Overall Glazing Thickness	Exterior Glass Thickness	Interior Glass Thickness	Third Pane Thickness (HGP)		
Pella Lifestyle Series Double-Hung	37" x 59"	1 1/16"	2.5mm	2.5mm	—	27	23
	37" x 59"	1 1/16"	5mm	3mm	—	31	27

(—) = Not Available

(1) Maximum performance for single unit when glazed with the appropriate glass thickness. See Design Data pages in this section for specific product performance class and grade values.

(2) Published performance data for air infiltration is determined by testing a minimum of four (4) products of NFRC model size. Testing is conducted in accordance with ASTM E283. Air infiltration ratings for products will differ by size. The performance data does not apply to combination assemblies unless noted. Actual product performance may vary for a number of reasons including installation and product care.

(3) The higher the level, the greater the product's ability to resist forced entry.

(4) Glazing configurations may result in higher operational forces.

(5) ASTM E 1425 defines standard sizes for acoustical testing. Ratings achieved at that size are representative of all sizes of the same configuration.



# Lifestyle Series Double-Hung

## Features and Options

Standard	Options / Upgrades
<b>Glazing</b>	
<b>Glazing Type</b>	
Dual-Pane Insulating Glass	—
<b>Insulated Glass Options/Low-E Types</b>	
Advanced Low-E	SunDefense™ Low-E
	SunDefense+ Low-E
	AdvancedComfort Low-E
	NaturalSun Low-E
	NaturalSun+ Low-E
<b>Additional Glass Options</b>	
Annealed Glass	STC Glazing Options
	Tempered Glass
	Obscure Glass <sub>1</sub>
<b>Gas Fill/High Altitude</b>	
Argon	High altitude (Air-filled only)
<b>Exterior</b>	
EnduraClad® protective finish	—
<b>Cladding Colors</b>	
12 Standard colors <sub>1</sub>	—
<b>Interior<sub>1</sub></b>	
Unfinished wood	Factory primed
	Factory prefinished paint <sub>1</sub>
	Factory prefinished stain <sub>1</sub>
<b>Wood Types</b>	
Pine	—
<b>Hardware</b>	
<b>Finishes</b>	
Champagne, Matte Black, White or Brown	Oil Rubbed Bronze, Satin Nickel
<b>Sash Locks/Sash Lifts</b>	
Cam-action lock	Sash lifts <sub>2</sub>
<b>Tilt-Wash Cleaning</b>	
Tilt to interior on both sashes	—
<b>Grilles</b>	
<b>Grilles-Between-the-Glass</b>	
—	Traditional, Prairie, Top Row, Cross, Custom - Equally Divided
<b>Simulated Divided Light with Optional Spacer<sub>3</sub></b>	
—	Traditional, Prairie, Top Row, Cross, Custom - Equally Divided
<b>Screens</b>	
—	Full-Size InView™ screens, Hidden Screen <sub>4</sub>

(—) = Not Available

(1) Contact your local Pella sales representative for current color options.

(2) Sold separately for Pella® Lifestyle Series double-hung windows.

(3) Available with Low-E argon-insulated glass only.

(4) Hidden Screen prevents operation of the upper sash.

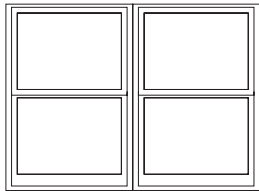


## Combination Assemblies

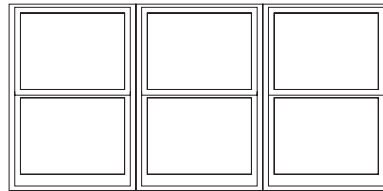
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mullioned together by a direct or reinforcing mullion.

Pella window combinations are available in an endless variety of arrangements. Refer to Combinations section for requirements and limitations.

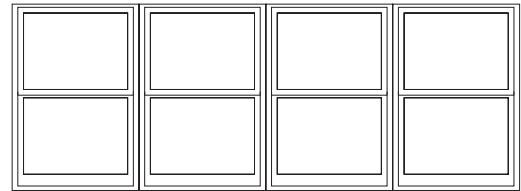
Contact your local Pella sales representative for more information.



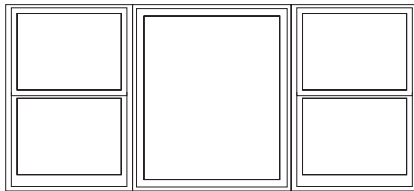
Two-Wide



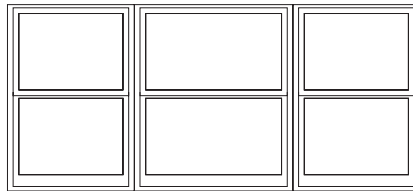
Three-Wide Equal



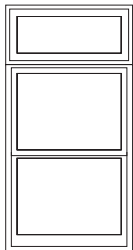
Four-Wide Equal



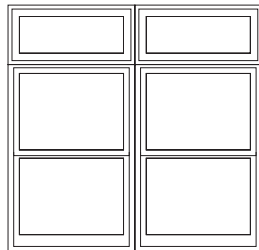
Center Fixed with Flankers



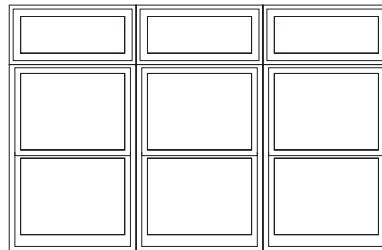
Three-Wide Unequal



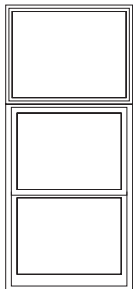
Transom over Single



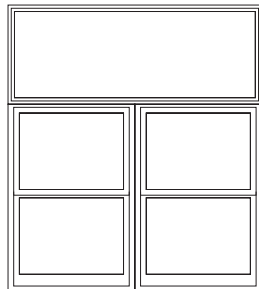
Two-Wide Transoms over Two-Wide



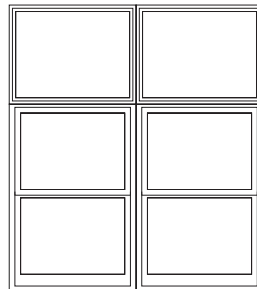
Three-Wide Transoms over Three-Wide



Clad Frame over Single



Single Clad Frame over Two-Wide



Two Wide Clad Frame over Two-Wide



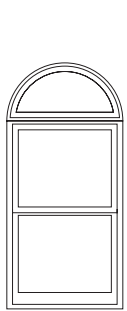
# Lifestyle Series Double-Hung

## Combination Assemblies

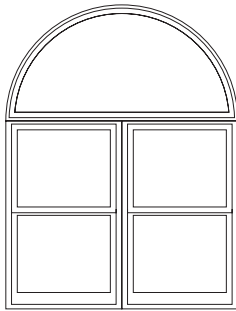
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mullioned together by a direct or reinforcing mullion.

Pella window combinations are available in an endless variety of arrangements. Refer to Combinations Section for requirements, and limitations.

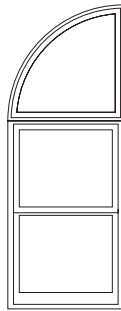
Contact your local Pella sales representative for more information.



Half Circle over Single



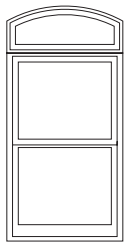
Half Circle over Two-Wide



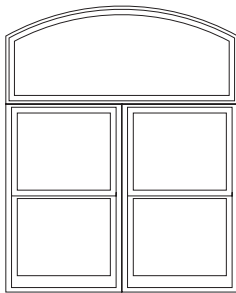
Left Quarter Circle over Single



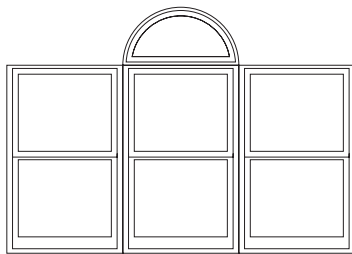
Right Quarter Circle over Single



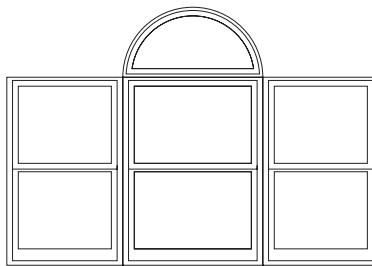
Arch Head over Single



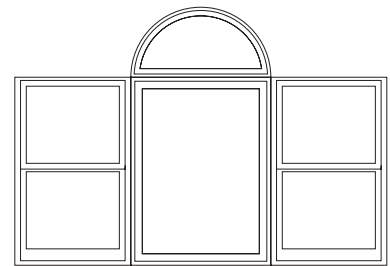
Arch Head over Two-Wide



Half Circle centered on Three-Wide Equal



Half Circle over Three-Wide Unequal



Half Circle over Center Fixed with Flankers



# Lifestyle Series Double-Hung

## Glazing Performance - Total Unit

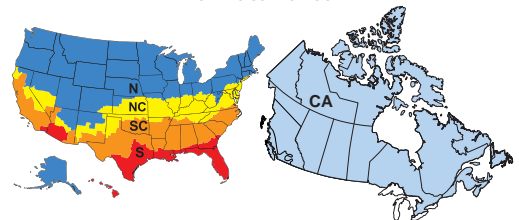
Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sup>1</sup>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown						
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S.		Canada <sup>2</sup>				
										Zone			ER	Zone		
Dual-Pane Vent										N	NC	SC	S	CA		
11/16"	Advanced LowE IG	PEL-N-35-00514-00001	2.5	2.5	argon	0.30	0.30	0.56	56							
	with grilles-between-the-glass	PEL-N-35-00515-00001				0.30	0.27	0.50	56							
	with Simulated Divided Light	PEL-N-35-00516-00001				0.30	0.27	0.50	56							
11/16"	Advanced LowE IG	PEL-N-35-00517-00001	3	3	argon	0.30	0.30	0.56	55							
	with grilles-between-the-glass	PEL-N-35-00518-00001				0.30	0.27	0.50	55							
	with Simulated Divided Light	PEL-N-35-00519-00001				0.30	0.27	0.50	55							
11/16"	SunDefense™ Low-E IG	PEL-N-35-00550-00001	2.5	2.5	argon	0.29	0.22	0.52	56				S			
	with grilles-between-the-glass	PEL-N-35-00551-00001				0.29	0.20	0.47	56				S			
	with Simulated Divided Light	PEL-N-35-00552-00001				0.29	0.20	0.47	56				S			
11/16"	SunDefense Low-E IG	PEL-N-35-00553-00001	3	3	argon	0.29	0.22	0.52	55				S			
	with grilles-between-the-glass	PEL-N-35-00554-00001				0.29	0.20	0.46	55				S			
	with Simulated Divided Light	PEL-N-35-00555-00001				0.29	0.20	0.46	55				S			
11/16"	SunDefense+ Low-E IG	PEL-N-35-00568-00001	2.5	2.5	argon	0.25	0.22	0.51	45		NC	SC	S			
	with grilles-between-the-glass	PEL-N-35-00569-00001				0.25	0.20	0.46	45		NC	SC	S			
	with Simulated Divided Light	PEL-N-35-00570-00001				0.25	0.20	0.46	45		NC	SC	S			
11/16"	SunDefense+ Low-E IG	PEL-N-35-00571-00001	3	3	argon	0.25	0.22	0.51	44		NC	SC	S			
	with grilles-between-the-glass	PEL-N-35-00572-00001				0.25	0.20	0.45	44		NC	SC	S			
	with Simulated Divided Light	PEL-N-35-00573-00001				0.25	0.20	0.45	44		NC	SC	S			
11/16"	AdvancedComfort Low-E IG	PEL-N-35-00532-00001	2.5	2.5	argon	0.26	0.29	0.55	45							
	with grilles-between-the-glass	PEL-N-35-00533-00001				0.26	0.27	0.49	45							
	with Simulated Divided Light	PEL-N-35-00534-00001				0.26	0.27	0.49	45							
11/16"	AdvancedComfort Low-E IG	PEL-N-35-00535-00001	3	3	argon	0.26	0.29	0.55	44							
	with grilles-between-the-glass	PEL-N-35-00536-00001				0.26	0.26	0.49	44							
	with Simulated Divided Light	PEL-N-35-00537-00001				0.26	0.26	0.49	44							
11/16"	NaturalSun LowE IG	PEL-N-35-00478-00001	2.5	2.5	argon	0.30	0.56	0.64	55					34	CA	
	with grilles-between-the-glass	PEL-N-35-00479-00001				0.30	0.50	0.57	55							
	with Simulated Divided Light	PEL-N-35-00480-00001				0.30	0.50	0.57	55							
11/16"	NaturalSun LowE IG	PEL-N-35-00481-00001	3	3	argon	0.30	0.55	0.63	54					34	CA	
	with grilles-between-the-glass	PEL-N-35-00482-00001				0.30	0.49	0.57	54							
	with Simulated Divided Light	PEL-N-35-00483-00001				0.30	0.49	0.57	54							
11/16"	NaturalSun+ LowE IG	PEL-N-35-00496-00001	2.5	2.5	argon	0.26	0.51	0.63	44	N				35	CA	
	with grilles-between-the-glass	PEL-N-35-00497-00001				0.26	0.46	0.56	44	N						
	with Simulated Divided Light	PEL-N-35-00498-00001				0.26	0.46	0.56	44	N						
11/16"	NaturalSun+ LowE IG	PEL-N-35-00499-00001	3	3	argon	0.26	0.50	0.62	43	N				35	CA	
	with grilles-between-the-glass	PEL-N-35-00500-00001				0.26	0.45	0.55	43	N						
	with Simulated Divided Light	PEL-N-35-00501-00001				0.26	0.45	0.55	43	N						

R-Value = 1/U-Factor  
 SHGC = Solar Heat Gain Coefficient  
 VLT % = Visible Light Transmission  
 CR = Condensation Resistance  
 ER = Canadian Energy Rating

(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2023 (version 7) criteria.

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Climate Zones





# Lifestyle Series Double-Hung

## Glazing Performance - Total Unit

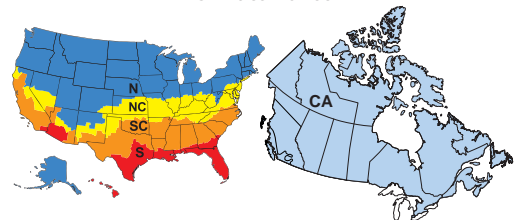
Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sup>1</sup>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown					
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S.		Canada <sup>2</sup>			
										Zone		ER	Zone		
Dual-Pane Vent – High Altitude Glazing										N	NC	SC	S	CA	
11/16"	Advanced LowE IG	PEL-N-35-00523-00001	2.5	2.5	air	0.33	0.30	0.57	52						
	with grilles-between-the-glass	PEL-N-35-00524-00001				0.33	0.27	0.50	52						
	with Simulated Divided Light	PEL-N-35-00525-00001				0.33	0.27	0.50	52						
11/16"	Advanced LowE IG	PEL-N-35-00526-00001	3	3	air	0.33	0.30	0.56	52						
	with grilles-between-the-glass	PEL-N-35-00527-00001				0.33	0.27	0.50	52						
	with Simulated Divided Light	PEL-N-35-00528-00001				0.33	0.27	0.50	52						
11/16"	SunDefense™ Low-E IG	PEL-N-35-00559-00001	2.5	2.5	air	0.33	0.22	0.52	53						
	with grilles-between-the-glass	PEL-N-35-00560-00001				0.33	0.20	0.47	53						
	with Simulated Divided Light	PEL-N-35-00561-00001				0.33	0.20	0.47	53						
11/16"	SunDefense Low-E IG	PEL-N-35-00562-00001	3	3	air	0.33	0.23	0.52	52						
	with grilles-between-the-glass	PEL-N-35-00563-00001				0.33	0.20	0.46	52						
	with Simulated Divided Light	PEL-N-35-00564-00001				0.33	0.20	0.46	52						
11/16"	SunDefense+ Low-E IG	PEL-N-35-00577-00001	2.5	2.5	air	0.28	0.22	0.51	42			SC	S		
	with grilles-between-the-glass	PEL-N-35-00578-00001				0.28	0.20	0.46	42			SC	S		
	with Simulated Divided Light	PEL-N-35-00579-00001				0.28	0.20	0.46	42			SC	S		
11/16"	SunDefense+ Low-E IG	PEL-N-35-00580-00001	3	3	air	0.28	0.22	0.51	41			SC	S		
	with grilles-between-the-glass	PEL-N-35-00581-00001				0.28	0.20	0.45	41			SC	S		
	with Simulated Divided Light	PEL-N-35-00582-00001				0.28	0.20	0.45	41			SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-35-00541-00001	2.5	2.5	air	0.28	0.30	0.55	41						
	with grilles-between-the-glass	PEL-N-35-00542-00001				0.28	0.27	0.49	41						
	with Simulated Divided Light	PEL-N-35-00543-00001				0.28	0.27	0.49	41						
11/16"	AdvancedComfort Low-E IG	PEL-N-35-00544-00001	3	3	air	0.28	0.29	0.55	40						
	with grilles-between-the-glass	PEL-N-35-00545-00001				0.28	0.26	0.49	40						
	with Simulated Divided Light	PEL-N-35-00546-00001				0.28	0.26	0.49	40						
11/16"	NaturalSun LowE IG	PEL-N-35-00487-00001	2.5	2.5	air	0.34	0.56	0.64	52						
	with grilles-between-the-glass	PEL-N-35-00488-00001				0.34	0.50	0.57	52						
	with Simulated Divided Light	PEL-N-35-00489-00001				0.34	0.50	0.57	52						
11/16"	NaturalSun LowE IG	PEL-N-35-00490-00001	3	3	air	0.34	0.55	0.63	51						
	with grilles-between-the-glass	PEL-N-35-00491-00001				0.34	0.49	0.57	51						
	with Simulated Divided Light	PEL-N-35-00492-00001				0.34	0.49	0.57	51						
11/16"	NaturalSun+ LowE IG	PEL-N-35-00505-00001	2.5	2.5	air	0.28	0.51	0.63	41						
	with grilles-between-the-glass	PEL-N-35-00506-00001				0.28	0.46	0.56	41						
	with Simulated Divided Light	PEL-N-35-00507-00001				0.28	0.46	0.56	41						
11/16"	NaturalSun+ LowE IG	PEL-N-35-00508-00001	3	3	air	0.29	0.50	0.62	40						
	with grilles-between-the-glass	PEL-N-35-00509-00001				0.29	0.45	0.62	40						
	with Simulated Divided Light	PEL-N-35-00510-00001				0.29	0.45	0.55	40						

R-Value = 1/U-Factor  
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Climate Zones





# Lifestyle Series Double-Hung

## Glazing Performance - Total Unit

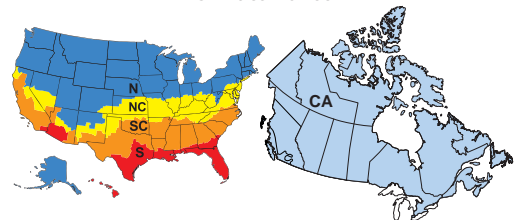
Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sup>1</sup>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown						
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S.				Canada <sup>2</sup>		
										Zone				ER	Zone	
Dual-Pane Fixed										N	NC	SC	S	CA		
11/16"	Advanced LowE IG	PEL-N-229-00861-00001	2.5	2.5	argon	0.27	0.31	0.58	58							
	with grilles-between-the-glass	PEL-N-229-00862-00001				0.27	0.28	0.52	58							
	with Simulated Divided Light	PEL-N-229-00863-00001				0.28	0.28	0.52	58							
11/16"	Advanced LowE IG	PEL-N-229-00949-00001	3	3	argon	0.27	0.31	0.58	57							
	with grilles-between-the-glass	PEL-N-229-00950-00001				0.27	0.28	0.51	57							
	with Simulated Divided Light	PEL-N-229-00951-00001				0.28	0.28	0.51	57							
11/16"	Advanced LowE IG	PEL-N-229-00965-00001	4	4	argon	0.28	0.30	0.57	55							
	with grilles-between-the-glass	PEL-N-229-00966-00001				0.29	0.28	0.51	55							
	with Simulated Divided Light	PEL-N-229-00967-00001				0.29	0.28	0.51	55							
11/16"	SunDefense™ Low-E IG	PEL-N-229-01045-00001	2.5	2.5	argon	0.27	0.23	0.54	58			SC	S			
	with grilles-between-the-glass	PEL-N-229-01046-00001				0.27	0.21	0.48	58			SC	S			
	with Simulated Divided Light	PEL-N-229-01047-00001				0.28	0.21	0.48	58			SC	S			
11/16"	SunDefense Low-E IG	PEL-N-229-01053-00001	3	3	argon	0.27	0.23	0.53	57			SC	S			
	with grilles-between-the-glass	PEL-N-229-01054-00001				0.27	0.21	0.48	57			SC	S			
	with Simulated Divided Light	PEL-N-229-01055-00001				0.28	0.21	0.48	57			SC	S			
11/16"	SunDefense Low-E IG	PEL-N-229-01061-00001	4	4	argon	0.28	0.23	0.53	55			SC	S			
	with grilles-between-the-glass	PEL-N-229-01062-00001				0.29	0.21	0.47	55				S			
	with Simulated Divided Light	PEL-N-229-01063-00001				0.29	0.21	0.47	55				S			
11/16"	SunDefense+ Low-E IG	PEL-N-229-01493-00001	2.5	2.5	argon	0.23	0.22	0.53	46		NC	SC	S			
	with grilles-between-the-glass	PEL-N-229-01494-00001				0.23	0.20	0.47	46		NC	SC	S			
	with Simulated Divided Light	PEL-N-229-01495-00001				0.24	0.20	0.47	46		NC	SC	S			
11/16"	SunDefense+ Low-E IG	PEL-N-229-01501-00001	3	3	argon	0.23	0.22	0.52	45		NC	SC	S			
	with grilles-between-the-glass	PEL-N-229-01502-00001				0.23	0.20	0.47	45		NC	SC	S			
	with Simulated Divided Light	PEL-N-229-01503-00001				0.24	0.20	0.47	45		NC	SC	S			
11/16"	SunDefense+ Low-E IG	PEL-N-229-01509-00001	4	4	argon	0.24	0.22	0.52	43		NC	SC	S			
	with grilles-between-the-glass	PEL-N-229-01510-00001				0.25	0.20	0.46	43		NC	SC	S			
	with Simulated Divided Light	PEL-N-229-01511-00001				0.25	0.20	0.46	43		NC	SC	S			
11/16"	AdvancedComfort Low-E IG	PEL-N-229-00997-00001	2.5	2.5	argon	0.23	0.30	0.57	46		NC					
	with grilles-between-the-glass	PEL-N-229-00998-00001				0.23	0.27	0.51	46		NC					
	with Simulated Divided Light	PEL-N-229-00999-00001				0.24	0.27	0.51	46		NC					
11/16"	AdvancedComfort Low-E IG	PEL-N-229-01005-00001	3	3	argon	0.23	0.30	0.56	45		NC					
	with grilles-between-the-glass	PEL-N-229-01006-00001				0.23	0.27	0.50	45		NC					
	with Simulated Divided Light	PEL-N-229-01007-00001				0.24	0.27	0.50	45		NC					
11/16"	AdvancedComfort Low-E IG	PEL-N-229-01013-00001	4	4	argon	0.24	0.30	0.55	43		NC					
	with grilles-between-the-glass	PEL-N-229-01014-00001				0.25	0.27	0.50	43		NC					
	with Simulated Divided Light	PEL-N-229-01015-00001				0.25	0.27	0.50	43		NC					

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Climate Zones





# Lifestyle Series Double-Hung

## Glazing Performance - Total Unit

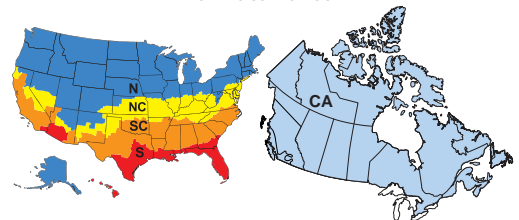
Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sup>1</sup>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown					
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S.		Canada <sup>2</sup>			
										Zone			ER	Zone	
Dual-Pane Fixed (continued)										N	NC	SC	S	CA	
11/16"	NaturalSun LowE IG	PEL-N-229-00901-00001	2.5	2.5	argon	0.28	0.58	0.66	57					38	CA
	with grilles-between-the-glass	PEL-N-229-00902-00001				0.28	0.52	0.59	57					35	CA
	with Simulated Divided Light	PEL-N-229-00903-00001				0.29	0.52	0.59	57					34	CA
11/16"	NaturalSun LowE IG	PEL-N-229-00909-00001	3	3	argon	0.28	0.57	0.65	56					38	CA
	with grilles-between-the-glass	PEL-N-229-00910-00001				0.28	0.51	0.58	56					34	CA
	with Simulated Divided Light	PEL-N-229-00911-00001				0.29	0.51	0.58	56						
11/16"	NaturalSun LowE IG	PEL-N-229-00917-00001	4	4	argon	0.29	0.55	0.65	55					35	CA
	with grilles-between-the-glass	PEL-N-229-00918-00001				0.30	0.50	0.58	55						
	with Simulated Divided Light	PEL-N-229-00919-00001				0.30	0.50	0.58	55						
11/16"	NaturalSun+ LowE IG	PEL-N-229-01445-00001	2.5	2.5	argon	0.24	0.53	0.64	45	N				41	CA
	with grilles-between-the-glass	PEL-N-229-01446-00001				0.24	0.47	0.58	45	N				37	CA
	with Simulated Divided Light	PEL-N-229-01447-00001				0.25	0.47	0.58	45	N				36	CA
11/16"	NaturalSun+ LowE IG	PEL-N-229-01453-00001	3	3	argon	0.24	0.52	0.64	44	N				40	CA
	with grilles-between-the-glass	PEL-N-229-01454-00001				0.24	0.46	0.57	44	N				37	CA
	with Simulated Divided Light	PEL-N-229-01455-00001				0.25	0.46	0.57	44	N				35	CA
11/16"	NaturalSun+ LowE IG	PEL-N-229-01461-00001	4	4	argon	0.25	0.50	0.63	42	N				38	CA
	with grilles-between-the-glass	PEL-N-229-01462-00001				0.26	0.45	0.56	42	N					
	with Simulated Divided Light	PEL-N-229-01463-00001				0.26	0.45	0.56	42	N					

R-Value = 1/U-Factor  
 SHGC = Solar Heat Gain Coefficient  
 VLT % = Visible Light Transmission  
 CR = Condensation Resistance  
 ER = Canadian Energy Rating

(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2023 (version 7) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative. Visit [www.energystar.gov](http://www.energystar.gov) for Energy Star guidelines.

Climate Zones





# Lifestyle Series Double-Hung

## Glazing Performance - Total Unit

Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sup>1</sup>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown						
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S.				Canada <sub>2</sub>		
										Zone				ER	Zone	
Dual-Pane Fixed – High Altitude Glazing										N	NC	SC	S	CA		
11/16"	Advanced LowE IG	PEL-N-229-00857-00001	2.5	2.5	air	0.31	0.31	0.58	54							
	with grilles-between-the-glass	PEL-N-229-00858-00001				0.31	0.28	0.52	54							
	with Simulated Divided Light	PEL-N-229-00859-00001				0.32	0.28	0.52	54							
11/16"	Advanced LowE IG	PEL-N-229-00945-00001	3	3	air	0.31	0.31	0.58	53							
	with grilles-between-the-glass	PEL-N-229-00946-00001				0.31	0.28	0.51	53							
	with Simulated Divided Light	PEL-N-229-00947-00001				0.32	0.28	0.51	53							
11/16"	Advanced LowE IG	PEL-N-229-00961-00001	4	4	air	0.33	0.31	0.57	51							
	with grilles-between-the-glass	PEL-N-229-00962-00001				0.34	0.28	0.51	51							
	with Simulated Divided Light	PEL-N-229-00963-00001				0.34	0.28	0.51	51							
11/16"	SunDefense™ Low-E IG	PEL-N-229-01041-00001	2.5	2.5	air	0.31	0.23	0.54	55				S			
	with grilles-between-the-glass	PEL-N-229-01042-00001				0.31	0.21	0.48	55				S			
	with Simulated Divided Light	PEL-N-229-01043-00001				0.28	0.21	0.48	53			SC	S			
11/16"	SunDefense Low-E IG	PEL-N-229-01049-00001	3	3	air	0.31	0.23	0.53	54				S			
	with grilles-between-the-glass	PEL-N-229-01050-00001				0.31	0.21	0.48	54				S			
	with Simulated Divided Light	PEL-N-229-01051-00001				0.32	0.21	0.48	54				S			
11/16"	SunDefense Low-E IG	PEL-N-229-01057-00001	4	4	air	0.32	0.23	0.53	52				S			
	with grilles-between-the-glass	PEL-N-229-01058-00001				0.34	0.21	0.47	52							
	with Simulated Divided Light	PEL-N-229-01059-00001				0.34	0.21	0.47	52							
11/16"	SunDefense+ Low-E IG	PEL-N-229-01489-00001	2.5	2.5	air	0.25	0.23	0.53	42		NC	SC	S			
	with grilles-between-the-glass	PEL-N-229-01490-00001				0.25	0.21	0.47	42		NC	SC	S			
	with Simulated Divided Light	PEL-N-229-01491-00001				0.26	0.21	0.47	42			SC	S			
11/16"	SunDefense+ Low-E IG	PEL-N-229-01497-00001	3	3	air	0.26	0.23	0.52	41			SC	S			
	with grilles-between-the-glass	PEL-N-229-01498-00001				0.26	0.21	0.47	41			SC	S			
	with Simulated Divided Light	PEL-N-229-01499-00001				0.27	0.21	0.47	41			SC	S			
11/16"	SunDefense+ Low-E IG	PEL-N-229-01505-00001	4	4	air	0.27	0.23	0.52	39			SC	S			
	with grilles-between-the-glass	PEL-N-229-01506-00001				0.28	0.21	0.46	39			SC	S			
	with Simulated Divided Light	PEL-N-229-01507-00001				0.28	0.21	0.46	39			SC	S			
11/16"	AdvancedComfort Low-E IG	PEL-N-229-00993-00001	2.5	2.5	air	0.26	0.30	0.57	42							
	with grilles-between-the-glass	PEL-N-229-00994-00001				0.26	0.27	0.51	42							
	with Simulated Divided Light	PEL-N-229-00995-00001				0.26	0.27	0.51	42							
11/16"	AdvancedComfort Low-E IG	PEL-N-229-01001-00001	3	3	air	0.26	0.30	0.56	41							
	with grilles-between-the-glass	PEL-N-229-01002-00001				0.26	0.27	0.50	41							
	with Simulated Divided Light	PEL-N-229-01003-00001				0.27	0.27	0.50	41							
11/16"	AdvancedComfort Low-E IG	PEL-N-229-01009-00001	4	4	air	0.27	0.30	0.55	39							
	with grilles-between-the-glass	PEL-N-229-01010-00001				0.28	0.27	0.50	39							
	with Simulated Divided Light	PEL-N-229-01011-00001				0.28	0.27	0.50	39							
11/16"	NaturalSun LowE IG	PEL-N-229-00897-00001	2.5	2.5	air	0.32	0.57	0.66	54							
	with grilles-between-the-glass	PEL-N-229-00898-00001				0.32	0.52	0.59	54							
	with Simulated Divided Light	PEL-N-229-00899-00001				0.33	0.52	0.59	54							
11/16"	NaturalSun LowE IG	PEL-N-229-00905-00001	3	3	air	0.32	0.56	0.65	53							
	with grilles-between-the-glass	PEL-N-229-00906-00001				0.32	0.51	0.58	53							
	with Simulated Divided Light	PEL-N-229-00907-00001				0.33	0.51	0.58	53							
11/16"	NaturalSun LowE IG	PEL-N-229-00913-00001	4	4	air	0.34	0.55	0.65	51							
	with grilles-between-the-glass	PEL-N-229-00914-00001				0.35	0.49	0.58	51							
	with Simulated Divided Light	PEL-N-229-00915-00001				0.35	0.49	0.58	51							
11/16"	NaturalSun+ LowE IG	PEL-N-229-01441-00001	2.5	2.5	air	0.26	0.52	0.64	41	N					37	CA
	with grilles-between-the-glass	PEL-N-229-01442-00001				0.26	0.47	0.58	41	N					35	CA
	with Simulated Divided Light	PEL-N-229-01443-00001				0.27	0.47	0.58	41							
11/16"	NaturalSun+ LowE IG	PEL-N-229-01449-00001	3	3	air	0.27	0.51	0.64	40						36	CA
	with grilles-between-the-glass	PEL-N-229-01450-00001				0.27	0.46	0.57	40							
	with Simulated Divided Light	PEL-N-229-01451-00001				0.28	0.46	0.57	40							
11/16"	NaturalSun+ LowE IG	PEL-N-229-01457-00001	4	4	air	0.28	0.50	0.63	38						34	CA
	with grilles-between-the-glass	PEL-N-229-01458-00001				0.29	0.45	0.56	38							
	with Simulated Divided Light	PEL-N-229-01459-00001				0.29	0.45	0.56	38							

(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2023 (version 7) criteria.

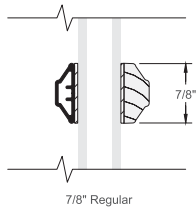
(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative. Visit [www.energystar.gov](http://www.energystar.gov) for Energy Star guidelines.

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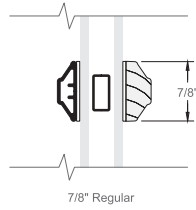


Grille Profiles

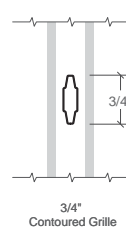
Simulated-Divided-Light Grilles



Simulated-Divided-Light Grilles with optional spacer

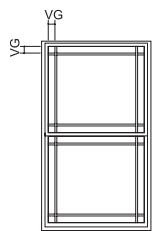


Grilles-Between-the-Glass

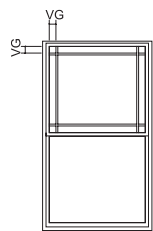


Grille Patterns

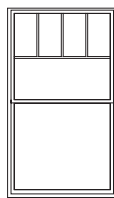
Grilles-Between-the-Glass and Simulated-Divided-Light Grilles



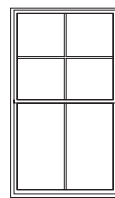
9-Lite Prairie



9-Lite Prairie Top Sash Only



Top Row



Cross

9-Lite Prairie

- Standard corner lite dimension for Prairie patterns = 2-1/2" VG.
- Available in transoms ≥ 1'3" height and width.

Cross

- Minimum DH frame height 35".
- Horizontal bar will be at 1/2" of the VG height of the top sash.

Top Row

- Minimum DH frame height 35".
- Horizontal bar will be at 1/2" of the VG height of the top sash.

For traditional patterns, see size tables.

VG = Visible Glass

(1) Grilles are available in traditional patterns only.

Lite dimensions noted can vary.

For size and pattern availability contact your local Pella sales representative.



# Lifestyle Series Double-Hung

## Size Tables - Double-Hung with GBG's and SDL's<sub>1</sub>

### Vent Units

	(552) (533)	(654) (635)	(755) (737)	(857) (838)	(959) (940)	(1 060) (1 041)	(1 162) (1 143)	(1 238) (1 219)
Opening	1' 9 3/4"	2' 1 3/4"	2' 5 3/4"	2' 9 3/4"	3' 1 3/4"	3' 5 3/4"	3' 9 3/4"	4' 0 3/4"
Frame	1' 9"	2' 1"	2' 5"	2' 9"	3' 1"	3' 5"	3' 9"	4' 0"
(908) (889)								
(1 060) (1 041)								
(1 213) (1 194)								
(1 365) (1 346)								
(1 467) (1 448)								
(1 517) (1 499)								
(1 670) (1 651)								
(1 822) (1 803)								
(1 975) (1 956)								
(2 153) (2 134)								

**Egress Notes:**  
 Check all applicable local codes for emergency egress requirements.

- E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft<sup>2</sup>.
- E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft<sup>2</sup>.

See Design Data pages in this section for clear opening dimensions.

Not to scale.  
 (1) Simulated divided lights are available in traditional patterns only.  
 Traditional grille patterns shown.  
 Grille patterns shown will align with grilles-between-the-glass on companion units.



# Lifestyle Series Double-Hung

## Size Tables - Fixed and Transoms with GBG's and SDL's

### Transoms

	(552) (533)	(654) (635)	(755) (737)	(857) (838)	(959) (940)	(1 060) (1 041)
Opening	1' 9 3/4"	2' 1 3/4"	2' 5 3/4"	2' 9 3/4"	3' 1 3/4"	3' 5 3/4"
Frame	1' 9"	2' 1"	2' 5"	2' 9"	3' 1"	3' 5"
(374) (356)						
(451) (432)						
(552) (533)						
(654) (635)						
(756) (737)						

### Fixed Units

	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 517) (1 499)	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 517) (1 499)
Opening	3' 5 3/4"	3' 11 3/4"	4' 5 3/4"	4' 11 3/4"	3' 5 3/4"	3' 11 3/4"	4' 5 3/4"	4' 11 3/4"
Frame	3' 5"	3' 11"	4' 5"	4' 11"	3' 5"	3' 11"	4' 5"	4' 11"
(908) (889)								
(1 060) (1 041)								
(1 213) (1 194)								
(1 365) (1 346)								
(1 467) (1 448)								

Not to scale.

Traditional grille patterns shown.






















Grille patterns shown will align with grilles-between-the-glass on companion units.



























































# Lifestyle Series Double-Hung

## Size Tables - Replacement Sizes with Grilles-Between-the-Glass

### Transoms

	(616) (597)	(718) (699)	(762) (749)	(819) (800)	(921) (902)	(1 022) (1 003)	(1 073) (1 054)
Opening	2' 0 1/4"	2' 4 1/4"	2' 6 1/4"	2' 8 1/4"	3' 0 1/4"	3' 4 1/4"	3' 6 1/4"
Frame	1' 11 1/2"	2' 3 1/2"	2' 5 1/2"	2' 7 1/2"	2' 11 1/2"	3' 3 1/2"	3' 5 1/2"
(375) (356)	 23.5 x 14	 27.5 x 14	 29.5 x 14	 31.5 x 14	 35.5 x 14	 39.5 x 14	 41.5 x 14
(451) (432)	 23.5 x 17	 27.5 x 17	 29.5 x 17	 31.5 x 17	 35.5 x 17	 39.5 x 17	 41.5 x 17
(654) (635)	 23.5 x 25	 27.5 x 25	 29.5 x 25	 31.5 x 25	 35.5 x 25	 39.5 x 25	 41.5 x 25

### Vent Units

(921) (902)	 23.5 x 35.5	 27.5 x 35.5	 29.5 x 35.5	 31.5 x 35.5	 35.5 x 35.5	 39.5 x 35.5	 41.5 x 35.5
(972) (953)	 23.5 x 37.5	 27.5 x 37.5	 29.5 x 37.5	 31.5 x 37.5	 35.5 x 37.5	 39.5 x 37.5	 41.5 x 37.5
(1 073) (1 054)	 23.5 x 41.5	 27.5 x 41.5	 29.5 x 41.5	 31.5 x 41.5	 35.5 x 41.5	 39.5 x 41.5	 41.5 x 41.5
(1 175) (1 156)	 23.5 x 45.5	 27.5 x 45.5	 29.5 x 45.5	 31.5 x 45.5	 35.5 x 45.5	 39.5 x 45.5	 41.5 x 45.5
(1 226) (1 206)	 23.5 x 47.5	 27.5 x 47.5	 29.5 x 47.5	 31.5 x 47.5	 35.5 x 47.5	 39.5 x 47.5	 41.5 x 47.5
(1 327) (1 308)	 23.5 x 51.5	 27.5 x 51.5	 29.5 x 51.5	 31.5 x 51.5	 35.5 x 51.5	 39.5 x 51.5	 41.5 x 51.5
(1 378) (1 359)	 23.5 x 53.5	 27.5 x 53.5	 29.5 x 53.5	 31.5 x 53.5	 35.5 x 53.5	 39.5 x 53.5	 41.5 x 53.5
(1 473) (1 461)	 23.5 x 57.5	 27.5 x 57.5	 29.5 x 57.5	 31.5 x 57.5 E <sub>1</sub>	 35.5 x 57.5 E	 39.5 x 57.5 E	 41.5 x 57.5 E

#### Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft<sup>2</sup>.

E<sub>1</sub> = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft<sup>2</sup>.

See Design Data pages in this section for clear opening dimensions.

Not to scale.

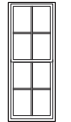
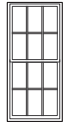
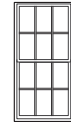




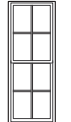
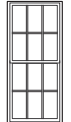
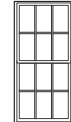




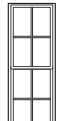
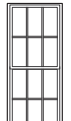
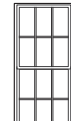




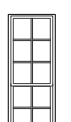
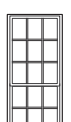
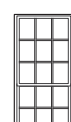
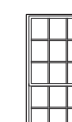



Traditional grille patterns shown.



# Lifestyle Series Double-Hung

## Size Tables - Replacement Double-Hung with Grilles-Between-the-Glass

### Vent Units

	(616) (597)	(718) (699)	(762) (749)	(819) (800)	(921) (902)	(1 022) (1 003)	(1 073) (1 054)
Opening	2' 0 1/4"	2' 4 1/4"	2' 6 1/4"	2' 8 1/4"	3' 0 1/4"	3' 4 1/4"	3' 6 1/4"
Frame	1' 11 1/2"	2' 3 1/2"	2' 5 1/2"	2' 7 1/2"	2' 11 1/2"	3' 3 1/2"	3' 5 1/2"
(1 530) (1 511)	 23.5 x 59.5	 27.5 x 59.5	 29.5 x 59.5	 31.5 x 59.5 E <sub>1</sub>	 35.5 x 59.5 E	 39.5 x 59.5 E	 41.5 x 59.5 E
(1 581) (1 562)	 23.5 x 61.5	 27.5 x 61.5	 29.5 x 61.5 E <sub>1</sub>	 31.5 x 61.5 E <sub>1</sub>	 35.5 x 61.5 E	 39.5 x 61.5 E	 41.5 x 61.5 E
(1 683) (1 664)	 23.5 x 65.5	 27.5 x 65.5	 29.5 x 65.5 E <sub>1</sub>	 31.5 x 65.5 E	 35.5 x 65.5 E	 39.5 x 65.5 E	 41.5 x 65.5 E
(1 835) (1 816)	 23.5 x 71.5	 27.5 x 71.5 E <sub>1</sub>	 29.5 x 71.5 E	 31.5 x 71.5 E	 35.5 x 71.5 E	 39.5 x 71.5 E	 41.5 x 71.5 E
	5' 0 1/4"	5' 2 1/4"	5' 6 1/4"	6' 0 1/4"	5' 11 1/2"	5' 11 1/2"	5' 11 1/2"
	4' 11 1/2"	5' 1 1/2"	5' 5 1/2"	5' 11 1/2"	5' 11 1/2"	5' 11 1/2"	5' 11 1/2"

#### Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft<sup>2</sup>.

E<sub>1</sub> = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft<sup>2</sup>.  
See Design Data pages in this section for clear opening dimensions.

Not to scale.  
Traditional grille patterns shown.



# Lifestyle Series Double-Hung

## Size Tables - Replacement Fixed with Grilles-Between-the-Glass

	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 517) (1 499)		(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 517) (1 499)
Opening	3' 5 3/4"	3' 11 3/4"	4' 5 3/4"	4' 11 3/4"	Opening	3' 5 3/4"	3' 11 3/4"	4' 5 3/4"	4' 11 3/4"
Frame	3' 5"	3' 11"	4' 5"	4' 11"	Frame	3' 5"	3' 11"	4' 5"	4' 11"
(921) (902)	41 x 35.5	47 x 35.5	53 x 35.5	59 x 35.5	(1 530) (1 511)	41 x 59.5	47 x 59.5	53 x 59.5	59 x 59.5
(972) (953)	41 x 37.5	47 x 37.5	53 x 37.5	59 x 37.5	(1 581) (1 562)	41 x 61.5	47 x 61.5	53 x 61.5	59 x 61.5
(1 073) (1 054)	41 x 41.5	47 x 41.5	53 x 41.5	59 x 41.5	(1 683) (1 664)	41 x 65.5	47 x 65.5	53 x 65.5	59 x 65.5
(1 175) (1 156)	41 X 45.5	47 X 45.5	53 X 45.5	59 X 45.5	(1 835) (1 816)	41 x 71.5	47 x 71.5	53 x 71.5	59 x 71.5
(1 226) (1 206)	41 X 47.5	47 X 47.5	53 X 47.5	59 X 47.5					
(1 327) (1 308)	41 x 51.5	47 x 51.5	53 x 51.5	59 x 51.5					
(1 378) (1 359)	41 x 53.5	47 x 53.5	53 x 53.5	59 x 53.5					
(1 473) (1 461)	41 x 57.5	47 x 57.5	53 x 57.5	59 x 57.5					

**Egress Notes:**

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft<sup>2</sup>.

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft<sup>2</sup>.

See Design Data pages in this section for clear opening dimensions.

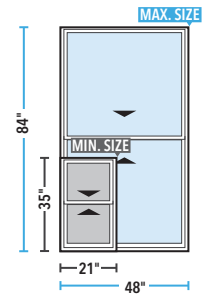
Not to scale.

Traditional grille patterns shown.



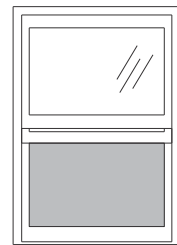
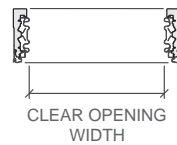
Special Size Frame Dimensions\*

	Minimum	Maximum
Vent	1' 9" W x 2' 11" H (21" x 35") (533 x 889)	4' 0" W x 7' 0" H (48" x 84") (1 219 x 2 134)
Fixed	1' 9" W x 1' 2" H (21" x 14") (533 x 356)	4' 11" W x 6' 1" H (59" x 73") (1 499 x 1 854)

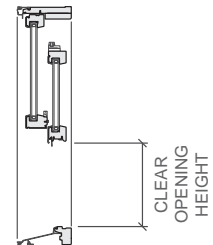


Miscellaneous Formulas (Equal Sash Only)

	Vent Units
Visible Glass	Width = Frame - 5" Height <sub>1</sub> = (Frame - 6.3125") ÷ 2
Actual Glass	Width = Frame - 4" Height <sub>1</sub> = (Frame - 4.3125") ÷ 2
Clear Opening Height:	(Frame Height ÷ 2) - 3.25"
Clear Opening Width:	Frame Width - 3.1875"



Shaded portion shows vent area.



Miscellaneous Formulas (Fixed Units Only)

	Fixed and transom units
Visible Glass	Width = Frame - 4.9375" Height = Frame - 4.9375"
Actual Glass	Width = Frame - 4" Height = Frame - 4"

\* Available within size range shown. Keep frame dimensions to the nearest 1/4" increment. Frame height cannot exceed frame width on special size dual-pane vent units.  
(1) Per Sash.  
To convert areas to square meters (m<sup>2</sup>), multiply square feet by 0.0929.



# Lifestyle Series Double-Hung

## Design Data - Vent Units

New Construction Vent								
Unit	Egress	Clear Opening (Inches)		Vent Area Ft <sup>2</sup>	Visible Glass Ft <sup>2</sup>	Standard Glass Thickness (mm)		Performance Class & Grade <sup>(1)</sup>
		Width	Height			Annealed	Tempered	
2135		17-13/16	14-1/4	1.8	3.2	2.5	3	LC50
2141		17-13/16	17-1/4	2.1	3.9	2.5	3	LC50
2147		17-13/16	20-1/4	2.5	4.5	2.5	3	LC50
2153		17-13/16	23-1/4	2.9	5.2	2.5	3	LC50
2157		17-13/16	25-1/4	3.1	5.6	2.5	3	LC40/LC50
2159		17-13/16	26-1/4	3.2	5.9	2.5	3	LC40/LC50
2165		17-13/16	29-1/4	3.6	6.5	2.5	3	LC40/LC50
2171		17-13/16	32-1/4	4.0	7.2	2.5	3	LC30/LC50
2177		17-13/16	35-1/4	4.3	7.8	2.5	3	LC30
2184		17-13/16	38-3/4	4.8	8.6	2.5	3	LC25
2535		21-13/16	14-1/4	2.2	4.0	2.5	3	LC50
2541		21-13/16	17-1/4	2.6	4.8	2.5	3	LC50
2547		21-13/16	20-1/4	3.1	5.7	2.5	3	LC50
2553		21-13/16	23-1/4	3.5	6.5	2.5	3	LC50
2557		21-13/16	25-1/4	3.8	7.0	2.5	3	LC40/LC50
2559		21-13/16	26-1/4	4.0	7.3	2.5	3	LC40/LC50
2565		21-13/16	29-1/4	4.4	8.2	2.5	3	LC40/LC50
2571		21-13/16	32-1/4	4.9	9.0	2.5	3	LC30/LC50
2577	E1	21-13/16	35-1/4	5.3	9.8	2.5	3	LC30
2584	E	21-13/16	38-3/4	5.9	10.8	2.5	3	LC25
2935		25-13/16	14-1/4	2.6	4.8	2.5	3	LC50
2941		25-13/16	17-1/4	3.1	5.8	2.5	3	LC50
2947		25-13/16	20-1/4	3.6	6.8	2.5	3	LC50
2953		25-13/16	23-1/4	4.2	7.8	2.5	3	LC50
2957		25-13/16	25-1/4	4.5	8.4	2.5	3	LC40/LC50
2959		25-13/16	26-1/4	4.7	8.8	2.5	3	LC40/LC50
2965	E1	25-13/16	29-1/4	5.2	9.8	2.5	3	LC40/LC50
2971	E	25-13/16	32-1/4	5.8	10.8	2.5	3	LC30/LC50
2977	E	25-13/16	35-1/4	6.3	11.7	2.5	3	LC30
2984	E	25-13/16	38-3/4	6.9	12.9	2.5	3	LC25
3335		29-13/16	14-1/4	3.0	5.6	2.5	3	LC50
3341		29-13/16	17-1/4	3.6	6.7	2.5	3	LC50
3347		29-13/16	20-1/4	4.2	7.9	2.5	3	LC50
3353		29-13/16	23-1/4	4.8	9.1	2.5	3	LC40/LC50
3357	E1	29-13/16	25-1/4	5.2	9.9	2.5	3	LC40/LC50
3359	E1	29-13/16	26-1/4	5.4	10.2	2.5	3	LC40/LC50
3365	E	29-13/16	29-1/4	6.1	11.4	2.5	3	LC35/LC50
3371	E	29-13/16	32-1/4	6.7	12.6	2.5	3	LC30/LC50
3377	E	29-13/16	35-1/4	7.3	13.7	2.5	3	LC30
3384	E	29-13/16	38-3/4	8.0	15.1	2.5	3	LC25
3735		33-13/16	14-1/4	3.3	6.4	2.5	3	LC35/LC50
3741		33-13/16	17-1/4	4.1	7.7	2.5	3	LC35/LC50
3747		33-13/16	20-1/4	4.8	9.0	2.5	3	LC35/LC50
3753		33-13/16	23-1/4	5.5	10.4	2.5	3	LC35/LC50
3757	E	33-13/16	25-1/4	5.9	11.3	2.5	3	LC35/LC50
3759	E	33-13/16	26-1/4	6.2	11.7	2.5	3	LC35/LC50
3765	E	33-13/16	29-1/4	6.9	13.0	2.5	3	LC35/LC50
3771	E	33-13/16	32-1/4	7.6	14.4	2.5	3	LC30/LC50
3777	E	33-13/16	35-1/4	8.3	15.7	2.5	3	LC30
3784	E	33-13/16	38-3/4	9.1	17.3	2.5	3	LC25

**Egress Notes:**  
 Check all applicable local codes for emergency egress requirements.

- E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft<sup>2</sup>.
- E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft<sup>2</sup>.

Continued on Next Page

(1) Maximum performance when glazed with the appropriate glass thickness. Second number, where shown, indicates Design Pressure performance with DP Enhancement Kit installed. To convert area to square meters (m<sup>2</sup>), multiply square feet by 0.0929.



# Lifestyle Series Double-Hung

New Construction Vent								
Unit	Egress	Clear Opening (Inches)		Vent Area Ft <sup>2</sup>	Visible Glass Ft <sup>2</sup>	Standard Glass Thickness (mm)		Performance Class & Grade <sup>(1)</sup>
		Width	Height			Annealed	Tempered	
4135		37-13/16	14-1/4	3.7	6.5	2.5	3	LC30
4141		37-13/16	17-1/4	4.5	7.9	2.5	3	LC30
4147		37-13/16	20-1/4	5.3	9.2	2.5	3	LC30
4153		37-13/16	23-1/4	6.1	11.7	2.5	3	LC30
4157	E	37-13/16	25-1/4	6.6	12.7	2.5	3	LC30
4159	E	37-13/16	26-1/4	6.9	13.2	2.5	3	LC30
4165	E	37-13/16	29-1/4	7.7	14.7	2.5	3	LC30
4171	E	37-13/16	32-1/4	8.5	16.2	2.5	3	LC30
4177	E	37-13/16	35-1/4	9.2	17.6	2.5	3	LC30
4184	E	37-13/16	38-3/4	10.2	19.4	2.5	3	LC25
4535		41-13/16	14-1/4	4.1	8.0	2.5	3	LC30
4541		41-13/16	17-1/4	5.0	9.6	2.5	3	LC30
4547		41-13/16	20-1/4	5.9	11.3	2.5	3	LC30
4553		41-13/16	23-1/4	6.8	13.0	2.5	3	LC30
4557	E	41-13/16	25-1/4	7.3	14.1	2.5	3	LC30
4559	E	41-13/16	26-1/4	7.6	14.6	2.5	3	LC30
4565	E	41-13/16	29-1/4	8.5	16.3	2.5	3	LC30
4571	E	41-13/16	32-1/4	9.4	18.0	2.5	3	LC30
4577	E	41-13/16	35-1/4	10.2	19.6	2.5	3	LC30
4584	E	41-13/16	38-3/4	11.3	21.6	3.0	3	LC25
4835		44-13/16	14-1/4	4.4	8.6	2.5	3	LC25
4841		44-13/16	17-1/4	5.4	10.4	2.5	3	LC25
4847		44-13/16	20-1/4	6.3	12.1	2.5	3	LC25
4853		44-13/16	23-1/4	7.2	13.9	2.5	3	LC25
4857	E	44-13/16	25-1/4	7.9	15.1	2.5	3	LC25
4859	E	44-13/16	26-1/4	8.2	15.7	2.5	3	LC25
4865	E	44-13/16	29-1/4	9.1	17.5	2.5	3	LC25
4871	E	44-13/16	32-1/4	10.0	19.3	2.5	3	LC25
4877	E	44-13/16	35-1/4	11.0	21.1	2.5	3	LC25
4884	E	44-13/16	38-3/4	12.1	23.2	2.5	3	LC25

**Egress Notes:**  
 Check all applicable local codes for emergency egress requirements.  
 E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft<sup>2</sup>.  
 E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft<sup>2</sup>.

(1) Maximum performance when glazed with the appropriate glass thickness. Second number, where shown, indicates Design Pressure performance with DP Enhancement Kit installed. To convert area to square meters (m<sup>2</sup>), multiply square feet by 0.0929.



# Lifestyle Series Double-Hung

## Design Data - Fixed and Transoms

New Construction Fixed				
Unit	Visible Glass Ft <sup>2</sup>	Standard Glass Thickness (mm)		Performance Class & Grade <sup>(1)</sup>
		Annealed	Tempered	
4135	7.5	3	3	LC50
4141	9.0	3	3	LC50
4147	10.5	3	3	LC50
4153	12.0	3	3	LC50
4157	13.0	3	3	LC50
4159	13.6	3	3	LC50
4165	15.1	3	3	LC50
4171	16.6	3	3	LC45/LC50
4735	8.8	3	3	LC50
4741	10.5	3	3	LC50
4747	12.3	3	3	LC50
4753	14.1	3	3	LC50
4757	15.2	3	3	LC50
4759	15.8	3	3	LC45/LC50
4765	17.6	3	3	LC45/LC50
4771	19.3	4	4	LC50
5335	10.0	3	3	LC50
5341	12.0	3	3	LC50
5347	14.1	3	3	LC50
5353	16.1	3	4	LC45/LC50
5357	17.4	3	4	LC45/LC50
5359	18.1	4	4	LC50
5365	20.1	4	4	LC50
5371	22.1	4	4	LC50
5935	11.3	3	3	LC50
5941	13.6	3	3	LC50
5947	15.8	3	3	LC45/LC50
5953	18.1	4	4	LC50
5957	19.6	4	4	LC50
5959	20.3	4	4	LC50
5965	22.6	4	4	LC50
5971	24.8	4	4	LC45/LC50

New Construction Fixed Transom				
Unit	Visible Glass Ft <sup>2</sup>	Standard Glass Thickness (mm)		Performance Class & Grade <sup>(1)</sup>
		Annealed	Tempered	
2114	1.0	3	3	LC50
2117	1.3	3	3	LC50
2121	1.8	3	3	LC50
2125	2.2	3	3	LC50
2514	1.3	3	3	LC50
2517	1.7	3	3	LC50
2525	2.8	3	3	LC50
2914	1.5	3	3	LC50
2917	2.0	3	3	LC50
2925	3.4	3	3	LC50
2929	4.0	3	3	LC50
3314	1.8	3	3	LC50
3317	2.4	3	3	LC50
3325	3.9	3	3	LC50
3714	2.0	3	3	LC50
3717	2.7	3	3	LC50
3725	4.5	3	3	LC50
4114	2.3	3	3	LC50
4117	3.0	3	3	LC50
4125	5.0	3	3	LC50

(1) Maximum performance when glazed with the appropriate glass thickness. Second number, where shown, requires tempered glass. To convert areas to square meters (m<sup>2</sup>), multiply square feet by 0.0929.



# Lifestyle Series Double-Hung

## Design Data - Replacement Double-Hung

Replacement Vent								
Unit	Egress	Clear Opening		Vent Area Ft <sup>2</sup>	Visible Glass Ft <sup>2</sup>	Standard Glass Thickness (mm)		Performance Class & Grade <sup>1</sup>
		Width (Inches)	Height (Inches)			Annealed	Tempered	
23.5 x 35.5		20-5/16	14-1/2	2.0	3.7	2.5	3	LC50
23.5 x 37.5		20-5/16	15-1/2	2.1	4.0	2.5	3	LC50
23.5 x 41.5		20-5/16	17-1/2	2.4	4.5	2.5	3	LC50
23.5 x 45.5		20-5/16	19-1/2	2.7	5.0	2.5	3	LC50
23.5 x 47.5		20-5/16	20-1/2	2.8	5.3	2.5	3	LC50
23.5 x 51.5		20-5/16	22-1/2	3.1	5.8	2.5	3	LC50
23.5 x 53.5		20-5/16	23-1/2	3.3	6.1	2.5	3	LC40/LC50
23.5 x 57.5		20-5/16	25-1/2	3.5	6.6	2.5	3	LC40/LC50
23.5 x 59.5		20-5/16	26-1/2	3.7	6.8	2.5	3	LC40/LC50
23.5 x 61.5		20-5/16	27-1/2	3.8	7.1	2.5	3	LC40/LC50
23.5 x 65.5		20-5/16	29-1/2	4.1	7.6	2.5	3	LC30/LC50
23.5 x 71.5		20-5/16	32-1/2	4.5	8.4	2.5	3	LC30/LC50
27.5 x 35.5		24-5/16	14-1/2	2.4	4.6	2.5	3	LC50
27.5 x 37.5		24-5/16	15-1/2	2.6	4.9	2.5	3	LC50
27.5 x 41.5		24-5/16	17-1/2	2.9	5.5	2.5	3	LC50
27.5 x 45.5		24-5/16	19-1/2	3.2	6.1	2.5	3	LC50
27.5 x 47.5		24-5/16	20-1/2	3.4	6.4	2.5	3	LC50
27.5 x 51.5		24-5/16	22-1/2	3.7	7.1	2.5	3	LC50
27.5 x 53.5		24-5/16	23-1/2	3.9	7.4	2.5	3	LC40/LC50
27.5 x 57.5		24-5/16	25-1/2	4.3	8.0	2.5	3	LC40/LC50
27.5 x 59.5		24-5/16	26-1/2	4.4	8.3	2.5	3	LC40/LC50
27.5 x 61.5		24-5/16	27-1/2	4.6	8.6	2.5	3	LC40/LC50
27.5 x 65.5		24-5/16	29-1/2	4.9	9.2	2.5	3	LC30/LC50
27.5 x 71.5	E1	24-5/16	32-1/2	5.4	10.2	2.5	3	LC30/LC50
29.5 x 35.5		26-5/16	14-1/2	2.6	5.0	2.5	3	LC50
29.5 x 37.5		26-5/16	15-1/2	2.8	5.3	2.5	3	LC50
29.5 x 41.5		26-5/16	17-1/2	3.1	6.0	2.5	3	LC50
29.5 x 45.5		26-5/16	19-1/2	3.5	6.7	2.5	3	LC50
29.5 x 47.5		26-5/16	20-1/2	3.7	7.0	2.5	3	LC40/LC50
29.5 x 51.5		26-5/16	22-1/2	4.1	7.7	2.5	3	LC40/LC50
29.5 x 53.5		26-5/16	23-1/2	4.2	8.0	2.5	3	LC40/LC50
29.5 x 57.5		26-5/16	25-1/2	4.6	8.7	2.5	3	LC40/LC50
29.5 x 59.5		26-5/16	26-1/2	4.8	9.0	2.5	3	LC35/LC50
29.5 x 61.5	E1	26-5/16	27-1/2	5.0	9.4	2.5	3	LC35/LC50
29.5 x 65.5	E1	26-5/16	29-1/2	5.3	10.1	2.5	3	LC30/LC50
29.5 x 71.5	E	26-5/16	32-1/2	5.9	11.1	2.5	3	LC30/LC50

**Egress Notes:**

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft<sup>2</sup>.

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft<sup>2</sup>.

(1) Maximum performance when glazed with the appropriate glass thickness. Second number, where shown, indicates Design Pressure performance with DP Enhancement Kit installed.



# Lifestyle Series Double-Hung

## Design Data - Replacement Double-Hung

Replacement Vent								
Unit	Egress	Clear Opening		Vent Area Ft <sup>2</sup>	Visible Glass Ft <sup>2</sup>	Standard Glass Thickness (mm)		Performance Class & Grade <sup>1</sup>
		Width (Inches)	Height (Inches)			Annealed	Tempered	
31.5 x 35.5		28-5/16	14-1/2	2.8	5.4	2.5	3	LC50
31.5 x 37.5		28-5/16	15-1/2	3.0	5.7	2.5	3	LC50
31.5 x 41.5		28-5/16	17-1/2	3.4	6.5	2.5	3	LC50
31.5 x 45.5		28-5/16	19-1/2	3.8	7.2	2.5	3	LC50
31.5 x 47.5		28-5/16	20-1/2	4.0	7.6	2.5	3	LC40/LC50
31.5 x 51.5		28-5/16	22-1/2	4.4	8.3	2.5	3	LC40/LC50
31.5 x 53.5		28-5/16	23-1/2	4.6	8.7	2.5	3	LC40/LC50
31.5 x 57.5	E1	28-5/16	25-1/2	5.0	9.4	2.5	3	LC40/LC50
31.5 x 59.5	E1	28-5/16	26-1/2	5.2	9.8	2.5	3	LC35/LC50
31.5 x 61.5	E1	28-5/16	27-1/2	5.4	10.2	2.5	3	LC35/LC50
31.5 x 65.5	E	28-5/16	29-1/2	5.8	10.9	2.5	3	LC30/LC50
31.5 x 71.5	E	28-5/16	32-1/2	6.3	12.0	2.5	3	LC30/LC50
35.5 x 35.5		32-5/16	14-1/2	3.2	6.2	2.5	3	LC35/LC50
35.5 x 37.5		32-5/16	15-1/2	3.4	6.6	2.5	3	LC35/LC50
35.5 x 41.5		32-5/16	17-1/2	3.9	7.5	2.5	3	LC35/LC50
35.5 x 45.5		32-5/16	19-1/2	4.3	8.3	2.5	3	LC35/LC50
35.5 x 47.5		32-5/16	20-1/2	4.6	8.7	2.5	3	LC35/LC50
35.5 x 51.5		32-5/16	22-1/2	5.0	9.6	2.5	3	LC35/LC50
35.5 x 53.5		32-5/16	23-1/2	5.2	10.0	2.5	3	LC35/LC50
35.5 x 57.5	E1	32-5/16	25-1/2	5.7	10.8	2.5	3	LC35/LC50
35.5 x 59.5	E	32-5/16	26-1/2	5.9	11.3	2.5	3	LC35/LC50
35.5 x 61.5	E	32-5/16	27-1/2	6.1	11.7	2.5	3	LC35/LC50
35.5 x 65.5	E	32-5/16	29-1/2	6.6	12.5	2.5	3	LC30/LC50
35.5 x 71.5	E	32-5/16	32-1/2	7.2	13.8	2.5	3	LC30/LC50
39.5 x 35.5		36-5/16	14-1/2	3.6	7.0	2.5	3	LC30
39.5 x 37.5		36-5/16	15-1/2	3.9	7.5	2.5	3	LC30
39.5 x 41.5		36-5/16	17-1/2	4.4	8.4	2.5	3	LC30
39.5 x 45.5		36-5/16	19-1/2	4.9	9.4	2.5	3	LC30
39.5 x 47.5		36-5/16	20-1/2	5.1	9.9	2.5	3	LC30
39.5 x 51.5		36-5/16	22-1/2	5.6	10.8	2.5	3	LC30
39.5 x 53.5		36-5/16	23-1/2	5.9	11.3	2.5	3	LC30
39.5 x 57.5	E	36-5/16	25-1/2	6.4	12.3	2.5	3	LC30
39.5 x 59.5	E	36-5/16	26-1/2	6.6	12.7	2.5	3	LC30
39.5 x 61.5	E	36-5/16	27-1/2	6.9	13.2	2.5	3	LC30
39.5 x 65.5	E	36-5/16	29-1/2	7.4	14.2	2.5	3	LC30
39.5 x 71.5	E	36-5/16	32-1/2	8.1	15.6	2.5	3	LC30
41.5 x 35.5		38-5/16	14-1/2	3.6	7.4	2.5	3	LC30
41.5 x 37.5		38-5/16	15-1/2	3.9	7.9	2.5	3	LC30
41.5 x 41.5		38-5/16	17-1/2	4.4	8.9	2.5	3	LC30
41.5 x 45.5		38-5/16	19-1/2	4.9	9.9	2.5	3	LC30
41.5 x 47.5		38-5/16	20-1/2	5.1	10.4	2.5	3	LC30
41.5 x 51.5		38-5/16	22-1/2	5.6	11.5	2.5	3	LC30
41.5 x 53.5		38-5/16	23-1/2	5.9	12.0	2.5	3	LC30
41.5 x 57.5	E	38-5/16	25-1/2	6.4	13.0	2.5	3	LC30
41.5 x 59.5	E	38-5/16	26-1/2	6.6	13.5	2.5	3	LC30
41.5 x 61.5	E	38-5/16	27-1/2	6.9	14.0	2.5	3	LC30
41.5 x 65.5	E	38-5/16	29-1/2	7.4	15.0	2.5	3	LC30
41.5 x 71.5	E	38-5/16	32-1/2	8.1	16.5	2.5	3	LC30

**Egress Notes:**  
 Check all applicable local codes for emergency egress requirements.  
 E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft<sup>2</sup>.  
 E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft<sup>2</sup>.

(1) Maximum performance when glazed with the appropriate glass thickness. Second number, where shown, indicates Design Pressure performance with DP Enhancement Kit installed.



# Lifestyle Series Double-Hung

## Design Data - Replacement Fixed and Transoms

Replacement Fixed				
Unit	Visible Glass Ft <sup>2</sup>	Standard Glass Thickness (mm)		Performance Class & Grade <sup>(1)</sup>
		Annealed	Tempered	
41 x 35.5	7.7	3	3	LC50
41 x 37.5	8.2	3	3	LC50
41 x 41.5	9.2	3	3	LC50
41 x 45.5	10.2	3	3	LC50
41 x 47.5	10.7	3	3	LC50
41 x 51.5	11.7	3	3	LC50
41 x 53.5	12.2	3	3	LC50
41 x 57.5	13.2	3	3	LC50
41 x 59.5	13.7	3	3	LC50
41 x 61.5	14.2	3	3	LC50
41 x 65.5	15.2	3	3	LC50
41 x 71.5	16.7	3	3	LC45/LC50
47 x 35.5	8.9	3	3	LC50
47 x 37.5	9.5	3	3	LC50
47 x 41.5	10.7	3	3	LC50
47 x 45.5	11.9	3	3	LC50
47 x 47.5	12.4	3	3	LC50
47 x 51.5	13.6	3	3	LC50
47 x 53.5	14.2	3	3	LC50
47 x 57.5	15.4	3	3	LC50
47 x 59.5	15.9	3	3	LC45/LC50
47 x 61.5	16.5	3	3	LC45/LC50
47 x 65.5	17.7	3	3	LC40/LC50
47 x 71.5	19.5	4	4	LC50
53 x 35.5	10.2	3	3	LC50
53 x 37.5	10.9	3	3	LC50
53 x 41.5	12.2	3	3	LC50
53 x 45.5	13.5	3	3	LC50
53 x 47.5	14.2	3	3	LC50
53 x 51.5	15.6	3	3	LC50
53 x 53.5	16.2	3	4	LC45/LC50
53 x 57.5	17.6	3	4	LC40/LC50
53 x 59.5	18.2	4	4	LC50
53 x 61.5	18.9	4	4	LC50
53 x 65.5	20.2	4	4	LC50
53 x 71.5	22.2	4	4	LC50
59 x 35.5	11.5	3	3	LC50
59 x 37.5	12.2	3	3	LC50
59 x 41.5	13.7	3	3	LC50
59 x 45.5	15.2	3	3	LC50
59 x 47.5	16.0	3	3	LC45/LC50
59 x 51.5	17.5	3	4	LC45/LC50
59 x 53.5	18.2	4	4	LC50
59 x 57.5	19.7	4	4	LC50
59 x 59.5	20.5	4	4	LC50
59 x 61.5	21.2	4	4	LC50
59 x 65.5	22.8	4	4	LC50
59 x 71.5	25.0	4	4	LC45/LC50

Replacement Fixed Transom				
Unit	Visible Glass Ft <sup>2</sup>	Standard Glass Thickness (mm)		Performance Class & Grade <sup>(1)</sup>
		Annealed	Tempered	
23.5 x 14	1.2	3	3	LC50
23.5 x 17	1.6	3	3	LC50
23.5 x 25	2.6	3	3	LC50
27.5 x 14	1.4	3	3	LC50
27.5 x 17	1.9	3	3	LC50
27.5 x 25	3.1	3	3	LC50
29.5 x 14	1.5	3	3	LC50
29.5 x 17	2.1	3	3	LC50
29.5 x 25	3.4	3	3	LC50
31.5 x 14	1.7	3	3	LC50
31.5 x 17	2.2	3	3	LC50
31.5 x 25	3.7	3	3	LC50
35.5 x 14	1.9	3	3	LC50
35.5 x 17	2.6	3	3	LC50
35.5 x 25	4.3	3	3	LC50
39.5 x 14	2.2	3	3	LC50
39.5 x 17	2.9	3	3	LC50
39.5 x 25	4.8	3	3	LC50
41.5 x 14	2.3	3	3	LC50
41.5 x 17	3.1	3	3	LC50
41.5 x 25	5.1	3	3	LC50

(1) Maximum performance when glazed with the appropriate glass thickness. Second number, where shown, requires tempered glass. To convert areas to square meters (m<sup>2</sup>), multiply square feet by 0.0929.



## Detailed Product Description

### Frame

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are clear pine.
- Exterior surfaces are clad with aluminum.
- Components are assembled with screws, staples and concealed corner locks.
- Overall frame depth is 5" (127 mm) for a wall depth of 3-11/16" (94mm).
- Jamb liner shall be [Gray, high-impact polyvinyl chloride] [Black, chlorinated polyvinyl chloride] backed by continuous hard-tempered aluminum springs.
- Optional factory applied jamb extensions are available.
- Optional factory installed fold-out installation fins with flexible fin corners.
- Optional factory-applied EnduraClad® exterior trim.
- Optional factory-installed Pella Steady Set Installation System.

### Sash

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are clear pine.
- Exterior surfaces are clad with aluminum, lap-jointed and sealed.
- Corners mortised and tenoned, glued and secured with metal fasteners.
- Sash thickness is 1-5/8" (41 mm).
- Sashes tilt for easy cleaning.

### Weatherstripping

- Foam with 3 mm skin at head and bottom rail. Thermal-plastic elastomer bulb with slip-coating set into upper sash for tight contact at check rail.
- Secondary polyvinyl chloride leaf-type weatherstrip on bottom sash at sill.
- Jamb liner to seal against sides of sash.

### Glazing System

- Quality float glass complying with ASTM C 1036.
- High altitude glazing available.
- Silicone groove-glazed 11/16" [obscure] dual-seal insulating glass [[annealed] [tempered]] [[Advanced] [SunDefense™] [SunDefense+] [AdvancedComfort] [NaturalSun] [NaturalSun+] Low-E [with argon]].

### Exterior

- Exterior aluminum surfaces are finished with EnduraClad® protective finish, in a multi-step, baked-on finish.
- Color is [White] [Tan] [Putty] [Brown] [Poplar White] [Portobello] [Hartford Green] [Morning Sky Gray] [Brick Red] [Black].

### Interior

- [Unfinished, ready for site finishing] [factory primed with one coat acrylic latex] [factory prefinished [White] [Linen] [Bright White] [stain<sub>1</sub>]].

### Hardware

- Galvanized block-and-tackle balances are connected to sash with a polyester cord and concealed within the frame.
- Factory installed self-aligning surface-mounted sash lock. Two sash locks on units with frame width 33-1/4" and greater.
- Optional Sash lift furnished for field installation. Two lifts on units with frame width 33-1/4" and greater.
- Finish is [baked enamel [Champagne] [White] [Brown] [Matte Black]] [Satin Brass] [Satin Nickel].
- Champagne locks are standard on unfinished units; White locks are standard on factory prefinished white units.

### Optional Products

#### Grilles

- Simulated-Divided-Light [with optional spacer]
  - 7/8" Grilles permanently bonded to the interior and exterior of glass.
  - Patterns are [Traditional] [Prairie] [Cross] [Top Row] [Custom – Equally Divided].
  - Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [White] [Linen White] [Bright White] [stain<sub>1</sub>]]. Exterior grilles to match the exterior cladding color.
  - Available only on units glazed with Low-E insulated glass with argon.
- or –
- Grilles-Between-the-Glass<sub>2</sub>
  - Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass.
  - Patterns are [Traditional] [9-Lite Prairie] [Top Row] [Custom – Equally Divided].
  - Interior color is [White] [Ivory] [Tan<sub>3</sub>] [Brickstone] [Black] [Putty<sub>3</sub>] [Brown<sub>3</sub>] [Harvest] [Cordovan].
  - Exterior color [matched to the exterior cladding color] [White]<sub>4</sub>.

#### Screens

- InView™ screens
  - Full-size Vinyl-coated 18/18 mesh fiberglass screen cloth complying with the performance requirements of SMA 1201, set in aluminum frame fitted to outside of window, supplied complete with all necessary hardware.
  - Screen frame finish is baked enamel, color to match window cladding.
- Hidden screens<sub>5</sub>
  - Vinyl-coated 18/18 mesh fiberglass screen cloth, set in aluminum channels hidden within the sash, supplied complete with all necessary hardware.
  - Finish color [White] [Black] [Brown] [Fossil] [Iron Ore].

#### Hardware

- Optional factory applied limited opening device available for vent units in steel, nominal 3-3/4" opening.
- Optional window opening control device available for field installation. Device allows window to open less than 4" with normal operation, with a release mechanism that allows the sash to open completely. Complies with ASTM F2090-10.

(1) Contact your local Pella sales representative for current designs and color options.

(2) Available on units glazed with Low-E insulated glass with argon, and obscure insulated glass.

(3) Tan, brown and putty Interior GBG colors are available only with matching interior and exterior colors.

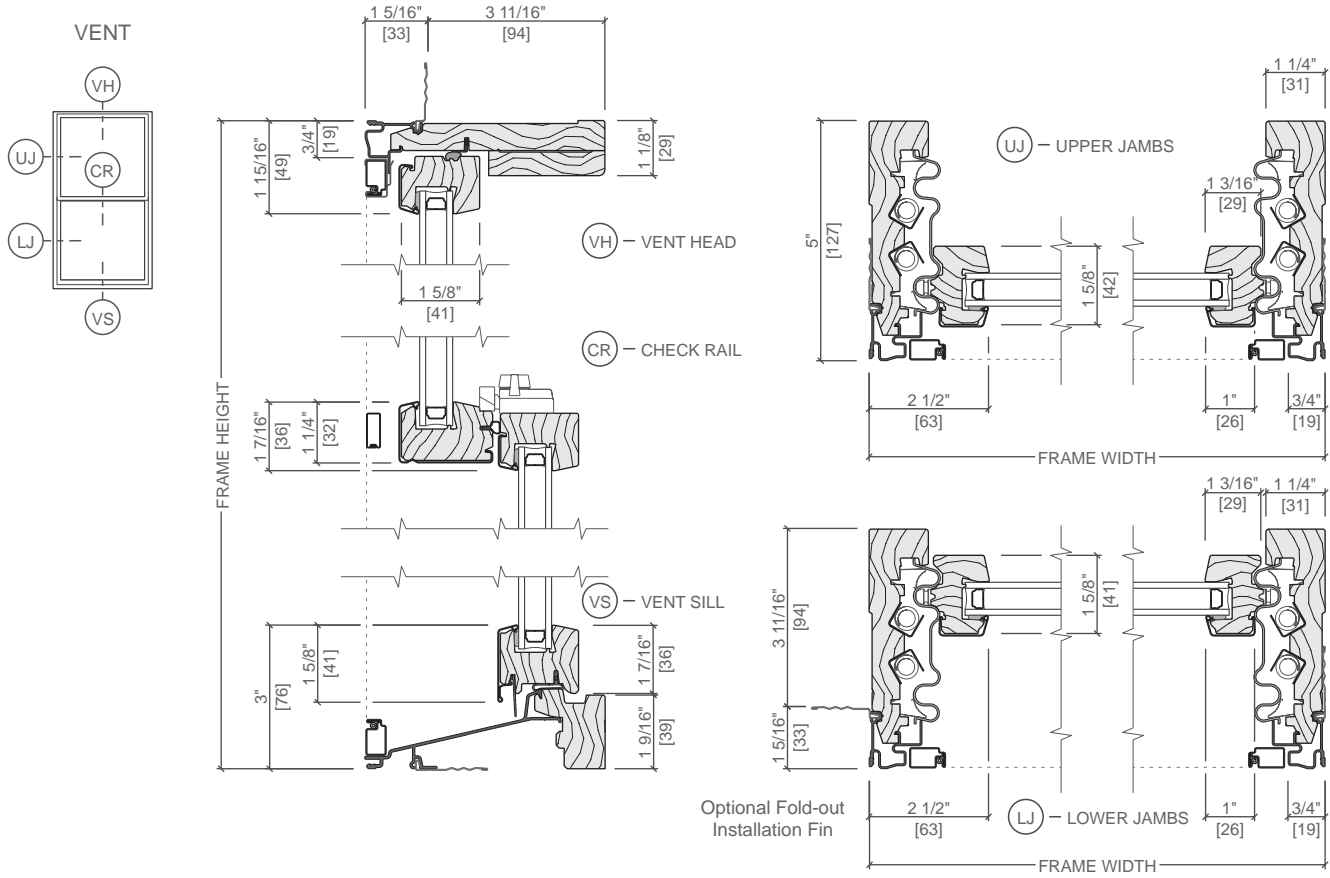
(4) Appearance of exterior grille color will vary depending on Low-E coating on glass.

(5) Not compatible with Limited Opening Hardware.



# Lifestyle Series Double-Hung

## Unit Sections

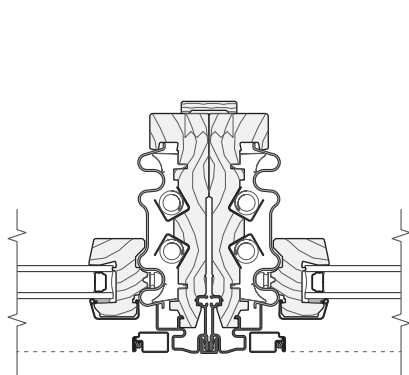
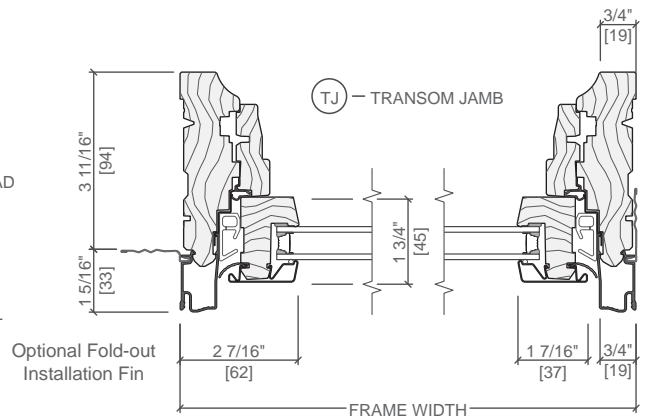
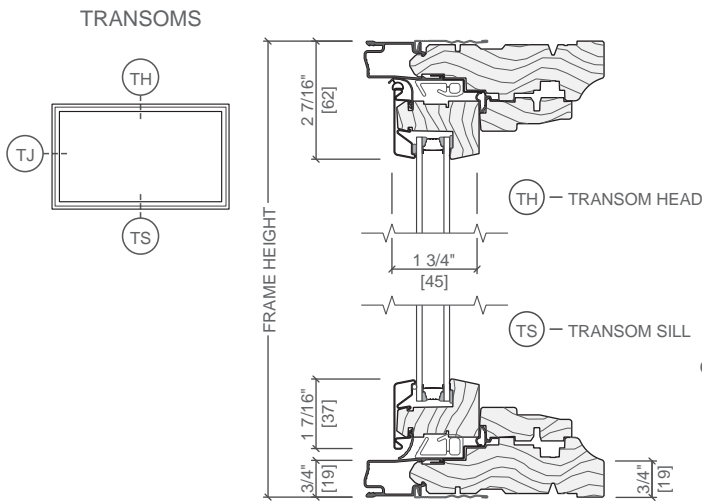
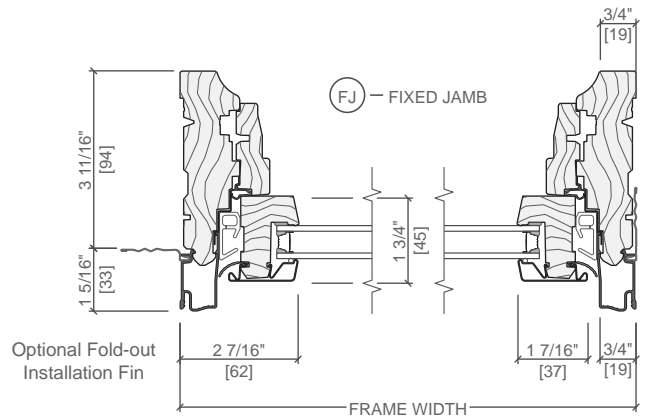
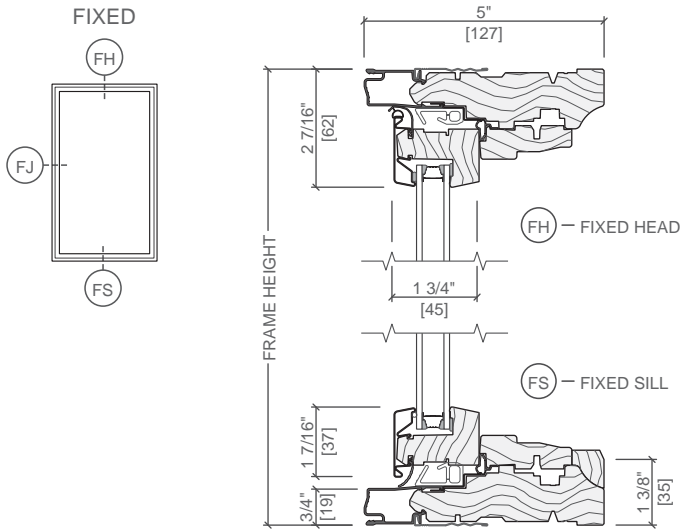


Scale 3" = 1' 0"  
 All dimensions are approximate.

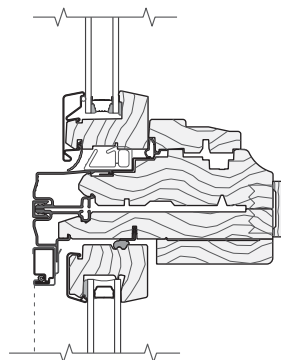


# Lifestyle Series Double-Hung

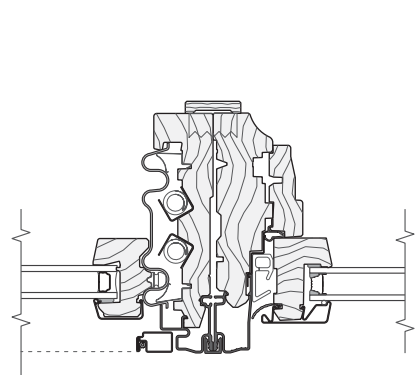
## Unit Sections



VERTICAL JOINING MULLION  
VENT / VENT



HORIZONTAL JOINING MULLION  
TRANSOM / VENT



VERTICAL JOINING MULLION  
VENT / FIXED

Scale 3" = 1' 0"

All dimensions are approximate.

See [www.Pella.com](http://www.Pella.com) for mullion limitations and reinforcing requirements.



# Lifestyle Series Double-Hung

## Unit Sections - Hidden Screen

